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# NOVEL METHODS OF DIAGNOSIS OF METASTATIC COLORECTAL CANCER, COMPOSITIONS AND METHODS OF SCREENING FOR MODULATORS OF METASTATIC COLORECTAL CANCER

#### CROSS-REFERENCES TO RELATED APPLICATIONS

The present application is related to USSN 60/272,206, filed February 27, 2001, USSN 60/281,149, filed April 2, 2001, and USSN 60/284,555, filed April 17, 2001, all of which are herein incorporated by referenced in their entirety.

#### FIELD OF THE INVENTION

The invention relates to the identification of nucleic acid and protein expression profiles and nucleic acids, products, and antibodies thereto that are involved in metastatic colorectal cancer; and to the use of such expression profiles and compositions in diagnosis and therapy of metastatic colorectal cancer. The invention further relates to methods for identifying and using agents and/or targets that inhibit metastatic colorectal cancer.

### BACKGROUND OF THE INVENTION

Cancer of the colon and/or rectum (referred to as "colorectal cancer") are significant in Western populations and particularly in the United States. Cancers of the colon and rectum occur in both men and women most commonly after the age of 50. These develop as the result of a pathologic transformation of normal colon epithelium to an invasive cancer. There have been a number of recently characterized genetic alterations that have been implicated in colorectal cancer, including mutations in two classes of genes, tumor-suppressor genes and proto-oncogenes, with recent work suggesting that mutations in DNA repair genes may also be involved in tumorigenesis. For example, inactivating mutations of both alleles of the adenomatous polyposis coli (APC) gene, a tumor suppressor gene, appears to be one of the earliest events in colorectal cancer, and may even be the initiating event. Other genes implicated in colorectal cancer include the MCC gene, the p53 gene, the DCC (deleted in colorectal carcinoma) gene and other chromosome 18q genes, and genes in the TGF-β signaling pathway. For a review, see *Molecular Biology of Colorectal Cancer*, pp. 238-299, in *Curr. Probl. Cancer*, Sept/Oct 1997; see also Willams, *Colorectal Cancer* 

(1996); Kinsella & Schofield, Colorectal Cancer: A Scientific Perspective (1993); Colorectal Cancer: Molecular Mechanisms, Premalignant State and its Prevention (Schmiegel & Scholmerich eds., 2000); Colorectal Cancer: New Aspects of Molecular Biology and Their Clinical Applications (Hanski et al., eds 2000); McArdle et al., Colorectal Cancer (2000); Wanebo, Colorectal Cancer (1993); Levin, The American Cancer Society: Colorectal Cancer (1999); Treatment of Hepatic Metastases of Colorectal Cancer (Nordlinger & Jaeck eds., 1993); Management of Colorectal Cancer (Dunitz et al., eds. 1998); Cancer: Principles and Practice of Oncology (Devita et al., eds. 2001); Surgical Oncology: Contemporary Principles and Practice (Kirby et al., eds. 2001); Offit, Clinical Cancer Genetics: Risk Counseling and Management (1997); Radioimmunotherapy of Cancer (Abrams & Fritzberg eds. 2000); Fleming, AJCC Cancer Staging Handbook (1998); Textbook of Radiation Oncology (Leibel & Phillips eds. 2000); and Clinical Oncology (Abeloff et al., eds. 2000).

Imaging of colorectal cancer for diagnosis has been problematic and limited. In addition, metastasis of the tumor to the lumen, and metastasis of tumor cells to regional lymph nodes are important prognostic factors (see, e.g., PET in Oncology: Basics and Clinical Application (Ruhlmann et al. eds. 1999). For example, five year survival rates drop from 80 percent in patients with no lymph node metastases to 45 to 50 percent in those patients who do have lymph node metastases. A recent report showed that micrometastases can be detected from lymph nodes using reverse transcriptase-PCR methods based on the presence of mRNA for carcinoembryonic antigen, which has previously been shown to be present in the vast majority of colorectal cancers but not in normal tissues. Liefers et al., New England J. of Med. 339(4):223 (1998). In addition, colorectal cancers often metastasize to the liver. However, the lack of information about the gene expression exhibited by these cancers limits the ability to effectively diagnose and treat the disease.

Thus, methods for diagnosis and prognosis of metastatic colorectal cancer and effective treatment of colorectal cancer would be desirable. Accordingly, provided herein are methods that can be used in diagnosis and prognosis of metastatic colorectal cancer. Further provided are methods that can be used to screen candidate therapeutic agents for the ability to modulate, e.g., treat, colorectal cancer. Additionally, provided herein are molecular targets and compositions for therapeutic intervention in metastatic colorectal disease and other metastatic cancers.

#### SUMMARY OF THE INVENTION

The present invention therefore provides nucleotide sequences of genes that are up- and down-regulated in metastatic colorectal cancer cells. Such genes and the proteins they

encode are useful for diagnostic and prognostic purposes, and also as targets for screening for therapeutic compounds that modulate metastatic colorectal cancer, such as antibodies. The methods of detecting nucleic acids of the invention or their encoded proteins can be used for a number of purposes. Examples include, early detection of colon cancers, monitoring and early detection of relapse following treatment of colon cancers, monitoring response to therapy of colon cancers, determining prognosis of colon cancers, directing therapy of colon cancers, selecting patients for postoperative chemotherapy or radiation therapy, selecting therapy, determining tumor prognosis, treatment, or response to treatment, and early detection of precancerous colon adenomas. Other aspects of the invention will become apparent to the skilled artisan by the following description of the invention.

In one aspect, the present invention provides a method of detecting a metastatic colorectal cancer-associated transcript in a cell from a patient, the method comprising contacting a biological sample from the patient with a polynucleotide that selectively hybridizes to a sequence at least 80% identical to a sequence as shown in Tables 1-26.

In one embodiment, the polynucleotide selectively hybridizes to a sequence at least 95% identical to a sequence as shown in Tables 1-26. In another embodiment, the polynucleotide comprises a sequence as shown in Tables 1-26.

In one embodiment, the biological sample is a tissue sample. In another embodiment, the biological sample comprises isolated nucleic acids, e.g., mRNA.

In one embodiment, the polynucleotide is labeled, e.g., with a fluorescent label.

In one embodiment, the polynucleotide is immobilized on a solid surface.

In one embodiment, the patient is undergoing a therapeutic regimen to treat metastatic colorectal cancer. In another embodiment, the patient is suspected of having metastatic colorectal cancer.

In one embodiment, the patient is a human.

In one embodiment, the method further comprises the step of amplifying nucleic acids before the step of contacting the biological sample with the polynucleotide.

In another aspect, the present invention provides methods of detecting polypeptide encoded by a metastatic colorectal cancer-associated transcript in a cell from a patient, the method comprising contacting a biological sample from the patient with an antibody that specifically binds a polypeptide encoded by a sequence at least 80% identical to a sequence as shown in Tables 1-26.

In another aspect, the present invention provides a method of monitoring the efficacy of a therapeutic treatment of metastatic colorectal cancer, the method comprising the steps of: (i) providing a biological sample from a patient undergoing the therapeutic treatment; and (ii) determining the level of a metastatic colorectal cancer-associated transcript in the biological sample by contacting the biological sample with a polynucleotide that selectively hybridizes to a sequence at least 80% identical to a sequence as shown in Tables 1-26., thereby monitoring the efficacy of the therapy.

In one embodiment, the method further comprises the step of: (iii) comparing the level of the metastatic colorectal cancer-associated transcript to a level of the metastatic colorectal cancer-associated transcript in a biological sample from the patient prior to, or earlier in, the therapeutic treatment.

In another aspect, the present invention provides a method of monitoring the efficacy of a therapeutic treatment of metastatic colorectal cancer, the method comprising the steps of: (i) providing a biological sample from a patient undergoing the therapeutic treatment; and (ii) determining the level of a metastatic colorectal cancer-associated antibody in the biological sample by contacting the biological sample with a polypeptide encoded by a polynucleotide that selectively hybridizes to a sequence at least 80% identical to a sequence as shown in Tables 1-26, wherein the polypeptide specifically binds to the metastatic colorectal cancer-associated antibody, thereby monitoring the efficacy of the therapy.

In one embodiment, the method further comprises the step of: (iii) comparing the level of the metastatic colorectal cancer-associated antibody to a level of the metastatic colorectal cancer-associated antibody in a biological sample from the patient prior to, or earlier in, the therapeutic treatment.

In another aspect, the present invention provides a method of monitoring the efficacy of a therapeutic treatment of metastatic colorectal cancer, the method comprising the steps of: (i) providing a biological sample from a patient undergoing the therapeutic treatment; and (ii) determining the level of a metastatic colorectal cancer-associated polypeptide in the biological sample by contacting the biological sample with an antibody, wherein the antibody specifically binds to a polypeptide encoded by a polynucleotide that selectively hybridizes to a sequence at least 80% identical to a sequence as shown in Tables 1-26, thereby monitoring the efficacy of the therapy.

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In one embodiment, the method further comprises the step of: (iii) comparing the level of the metastatic colorectal cancer-associated polypeptide to a level of the metastatic

colorectal cancer-associated polypeptide in a biological sample from the patient prior to, or earlier in, the therapeutic treatment.

In one aspect, the present invention provides an isolated nucleic acid molecule consisting of a polynucleotide sequence as shown in Tables 1-26.

In one embodiment, an expression vector or cell comprises the isolated nucleic acid.

In one aspect, the present invention provides an isolated polypeptide which is encoded by a nucleic acid molecule having polynucleotide sequence as shown in Tables 1-26.

In another aspect, the present invention provides an antibody that specifically binds to an isolated polypeptide which is encoded by a nucleic acid molecule having polynucleotide sequence as shown in Tables 1-26.

In one embodiment, the antibody is conjugated to an effector component, e.g., a fluorescent label, a radioisotope or a cytotoxic chemical.

In one embodiment, the antibody is an antibody fragment. In another embodiment, the antibody is humanized.

In one aspect, the present invention provides a method of detecting a metastatic colorectal cancer cell in a biological sample from a patient, the method comprising contacting the biological sample with an antibody as described herein.

In another aspect, the present invention provides a method of detecting antibodies specific to metastatic colorectal cancer in a patient, the method comprising contacting a biological sample from the patient with a polypeptide encoded by a nucleic acid comprises a sequence from Tables 1-26.

In another aspect, the present invention provides a method for identifying a compound that modulates a metastatic colorectal cancer-associated polypeptide, the method comprising the steps of: (i) contacting the compound with a metastatic colorectal cancer-associated polypeptide, the polypeptide encoded by a polynucleotide that selectively hybridizes to a sequence at least 80% identical to a sequence as shown in Tables 1-26; and (ii) determining the functional effect of the compound upon the polypeptide.

In one embodiment, the functional effect is a physical effect, an enzymatic effect, or a chemical effect.

In one embodiment, the polypeptide is expressed in a eukaryotic host cell or cell membrane. In another embodiment, the polypeptide is recombinant.

In one embodiment, the functional effect is determined by measuring ligand binding to the polypeptide.

In another aspect, the present invention provides a method of inhibiting proliferation of a metastatic colorectal cancer-associated cell to treat colorectal cancer in a patient, the method comprising the step of administering to the subject a therapeutically effective amount of a compound identified as described herein.

In one embodiment, the compound is an antibody.

In another aspect, the present invention provides a drug screening assay comprising the steps of: (i) administering a test compound to a mammal having colorectal cancer or a cell isolated therefrom; (ii) comparing the level of gene expression of a polynucleotide that selectively hybridizes to a sequence at least 80% identical to a sequence as shown in Tables 1-26. in a treated cell or mammal with the level of gene expression of the polynucleotide in a control cell or mammal, wherein a test compound that modulates the level of expression of the polynucleotide is a candidate for the treatment of colorectal cancer.

In one embodiment, the control is a mammal with colorectal cancer or a cell therefrom that has not been treated with the test compound. In another embodiment, the control is a normal cell or mammal.

In another aspect, the present invention provides a method for treating a mammal having colorectal cancer comprising administering a compound identified by the assay described herein.

In another aspect, the present invention provides a pharmaceutical composition for treating a mammal having colorectal cancer, the composition comprising a compound identified by the assay described herein and a physiologically acceptable excipient.

#### DETAILED DESCRIPTION OF THE INVENTION

In accordance with the objects outlined above, the present invention provides novel methods for diagnosis and treatment of colon and/or rectal cancer (e.g., colorectal cancer), including metastatic colorectal cancers, as well as methods for screening for compositions which modulate colorectal cancer. By "metastatic colorectal cancer" herein is meant a colon and/or rectal tumor or cancer that is classified as Dukes stage C or D (see, e.g., Cohen et al., Cancer of the Colon, in Cancer: Principles and Practice of Oncology, pp. 1144-1197 (Devita et al., eds., 5<sup>th</sup> ed. 1997); see also Harrison's Principles of Internal Medicine, pp. 1289-129 (Wilson et al., eds., 12<sup>th</sup> ed., 1991). "Treatment, monitoring, detection or modulation of metastatic colorectal cancer" includes treatment, monitoring, detection, or modulation of metastatic colorectal disease in those patients who have metastatic colorectal

disease (Dukes stage C or D). In Dukes stage A, the tumor has penetrated into, but not through, the bowel wall. In Dukes stage B, the tumor has penetrated through the bowel wall but there is not yet any lymph involvement. In Dukes stage C, the cancer involves regional lymph nodes. In Dukes stage D, there is distant metastasis, e.g., liver, lung, etc.

Tables 1-26 provide UniGene cluster identification numbers for the nucleotide sequence of genes that exhibit increased or decreased expression in metastasizing colorectal cancer samples. Tables 1-26 also provide an exemplar accession number that provides a nucleotide sequence that is part of the UniGene cluster. In Tables 1-26, the ratio provided represents primary tumor samples from known Dukes B stage survivors vs. liver metastasis samples from patients with metastatic colorectal cancer. In these samples, the identified genes are underexpressed in the metastatic samples, as the ratio is greater than one, preferably 1.5 or greater, more preferably 2.0 or greater. In Tables 1-26, the ratio provided represents liver metastasis samples from patients with known metastatic colorectal cancer vs. known primary tumor samples from Dukes B stage survivors. In these samples, the identified genes are overexpressed in the metastatic samples, as the ratio is greater than one, preferably 1.5 or greater, more preferably 2.0 or greater. In Tables 1-26, the ratio provided represents primary tumor samples from known Dukes B stage survivors vs. liver metastasis samples from patients with metastatic colorectal cancer. In these samples, the identified genes are overexpressed in the metastatic samples, as the ratio is less than one, preferably 0.5 or less, more preferably 0.25 or less. Survivors are subjects who have been disease free for five years or longer.

In Tables 1-26, the ratio provided represents liver metastasis samples from patients with known metastatic disease vs. tissue samples from normal colon tissue. In these samples, the identified genes are overexpressed in the metastatic samples, as the ratio is greater than one, preferably 1.5 or greater, more preferably 2.0 or greater. In Tables 1-26, the ratio represents liver metastasis samples from patients with known metastatic disease vs. tissue samples from normal colon tissue. In these samples, the identified genes are underexpressed in the metastatic samples, as the ratio is less than one, preferably 0.5 or less, more preferably 0.25 or less.

One of skill will recognize that although the sequences identified in Tables 1-26 exhibited increased or decreased expression in metastasizing colorectal cancer samples, the sequences of the invention, and their encoded proteins, can be used to diagnose, treat or prevent cancers in patients with Dukes stage A or B colorectal cancers. Alteration of gene

expression for a gene in Tables 1-26 may be more likely or less likely to indicate that the subject will progress to metastatic disease. The sequences can also be used to diagnose, treat or prevent precancerous or benign conditions such as precancerous colon adenomas. Alteration of gene expression for a gene in Tables 1-26 may or may not indicate that the subject is more likely to progress to cancer or to metastatic disease. Thus, although the specification focuses primarily on metastasizing colorectal cancer, the methods described below can also be applied to non-metastasizing colorectal cancers (e.g., Dukes stages A and B) and precancerous or benign conditions (e.g., precancerous adenomas) as well.

#### **Definitions**

The term "metastatic colorectal cancer protein" or "metastatic colorectal cancer polynucleotide" or "metastatic colorectal cancer-associated transcript" refers to nucleic acid and polypeptide polymorphic variants, alleles, mutants, and interspecies homologs that: (1) have a nucleotide sequence that has greater than about 60% nucleotide sequence identity, 65%, 70%, 75%, 80%, 85%, 90%, preferably 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98% or 99% or greater nucleotide sequence identity, preferably over a region of over a region of at least about 25, 50, 100, 200, 500, 1000, or more nucleotides, to a nucleotide sequence of or associated with a UniGene cluster of Tables 1-26; (2) bind to antibodies, e.g., polyclonal antibodies, raised against an immunogen comprising an amino acid sequence encoded by a nucleotide sequence of or associated with a UniGene cluster of Tables 1-26, and conservatively modified variants thereof; (3) specifically hybridize under stringent hybridization conditions to a nucleic acid sequence, or the complement thereof of Tables 1-26 and conservatively modified variants thereof or (4) have an amino acid sequence that has greater than about 60% amino acid sequence identity, 65%, 70%, 75%, 80%, 85%, 90%, preferably 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98% or 99% or greater amino sequence identity, preferably over a region of over a region of at least about 25, 50, 100, 200, 500, 1000, or more amino acid, to an amino acid sequence encoded by a nucleotide sequence of or associated with a UniGene cluster of Tables 1-26. A polynucleotide or polypeptide sequence is typically from a mammal including, but not limited to, primate, e.g., human; rodent, e.g., rat, mouse, hamster; cow, pig, horse, sheep, or other mammal. A "metastatic colorectal cancer polypeptide" and a "metastatic colorectal cancer polynucleotide," include both naturally occurring or recombinant.

A "full length" metastatic colorectal cancer protein or nucleic acid refers to a metastatic colorectal cancer polypeptide or polynucleotide sequence, or a variant thereof, that contains all of the elements normally contained in one or more naturally occurring, wild type metastatic colorectal cancer polynucleotide or polypeptide sequences. The "full length" may be prior to, or after, various stages of post-translation processing or splicing, including alternative splicing.

"Biological sample" as used herein is a sample of biological tissue or fluid that contains nucleic acids or polypeptides, e.g., of a metastatic colorectal cancer protein, polynucleotide or transcript. Such samples include, but are not limited to, tissue isolated from primates, e.g., humans, or rodents, e.g., mice, and rats. Biological samples may also include sections of tissues such as biopsy and autopsy samples, frozen sections taken for histologic purposes, blood, plasma, serum, sputum, stool, tears, mucus, hair, skin, etc. Biological samples also include explants and primary and/or transformed cell cultures derived from patient tissues. A biological sample is typically obtained from a eukaryotic organism, most preferably a mammal such as a primate, e.g., chimpanzee or human; cow; dog; cat; a rodent, e.g., guinea pig, rat, mouse; rabbit; or other mammal; or a bird; reptile; fish.

"Providing a biological sample" means to obtain a biological sample for use in methods described in this invention. Most often, this will be done by removing a sample of cells from an animal, but can also be accomplished by using previously isolated cells (e.g., isolated by another person, at another time, and/or for another purpose), or by performing the methods of the invention *in vivo*. Archival tissues, having treatment or outcome history, will be particularly useful.

The terms "identical" or percent "identity," in the context of two or more nucleic acids or polypeptide sequences, refer to two or more sequences or subsequences that are the same or have a specified percentage of amino acid residues or nucleotides that are the same (i.e., about 60% identity, preferably 70%, 75%, 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or higher identity over a specified region, when compared and aligned for maximum correspondence over a comparison window or designated region) as measured using a BLAST or BLAST 2.0 sequence comparison algorithms with default parameters described below, or by manual alignment and visual inspection (see, e.g., NCBI web site http://www.ncbi.nlm.nih.gov/BLAST/ or the like). Such sequences are then said to be "substantially identical." This definition also refers to, or may be applied to, the compliment of a test sequence. The definition also includes sequences that have deletions

and/or additions, as well as those that have substitutions, as well as naturally occurring, e.g., polymorphic or allelic variants, and man-made variants. As described below, the preferred algorithms can account for gaps and the like. Preferably, identity exists over a region that is at least about 25 amino acids or nucleotides in length, or more preferably over a region that is 50-100 amino acids or nucleotides in length.

For sequence comparison, typically one sequence acts as a reference sequence, to which test sequences are compared. When using a sequence comparison algorithm, test and reference sequences are entered into a computer, subsequence coordinates are designated, if necessary, and sequence algorithm program parameters are designated. Preferably, default program parameters can be used, or alternative parameters can be designated. The sequence comparison algorithm then calculates the percent sequence identities for the test sequences relative to the reference sequence, based on the program parameters.

A "comparison window", as used herein, includes reference to a segment of one of the number of contiguous positions selected from the group consisting typically of from 20 to 600, usually about 50 to about 200, more usually about 100 to about 150 in which a sequence may be compared to a reference sequence of the same number of contiguous positions after the two sequences are optimally aligned. Methods of alignment of sequences for comparison are well-known in the art. Optimal alignment of sequences for comparison can be conducted, e.g., by the local homology algorithm of Smith & Waterman, Adv. Appl. Math. 2:482 (1981), by the homology alignment algorithm of Needleman & Wunsch, J. Mol. Biol. 48:443 (1970), by the search for similarity method of Pearson & Lipman, Proc. Nat'l. Acad. Sci. USA 85:2444 (1988), by computerized implementations of these algorithms (GAP, BESTFIT, FASTA, and TFASTA in the Wisconsin Genetics Software Package, Genetics Computer Group, 575 Science Dr., Madison, WI), or by manual alignment and visual inspection (see, e.g., Current Protocols in Molecular Biology (Ausubel et al., eds. 1995 supplement)).

Preferred examples of algorithms that are suitable for determining percent sequence identity and sequence similarity include the BLAST and BLAST 2.0 algorithms, which are described in Altschul et al., Nuc. Acids Res. 25:3389-3402 (1977) and Altschul et al., J. Mol. Biol. 215:403-410 (1990). BLAST and BLAST-2.0 are used, with the parameters described herein, to determine percent sequence identity for the nucleic acids and proteins of the invention. Software for performing BLAST analyses is publicly available through the National Center for Biotechnology Information (http://www.ncbi.nlm.nih.gov/). This algorithm involves first identifying high scoring sequence pairs (HSPs) by identifying short

words of length W in the query sequence, which either match or satisfy some positive-valued threshold score T when aligned with a word of the same length in a database sequence. T is referred to as the neighborhood word score threshold (Altschul et al., supra). These initial neighborhood word hits act as seeds for initiating searches to find longer HSPs containing them. The word hits are extended in both directions along each sequence for as far as the cumulative alignment score can be increased. Cumulative scores are calculated using, e.g., for nucleotide sequences, the parameters M (reward score for a pair of matching residues; always > 0) and N (penalty score for mismatching residues; always < 0). For amino acid sequences, a scoring matrix is used to calculate the cumulative score. Extension of the word hits in each direction are halted when: the cumulative alignment score falls off by the quantity X from its maximum achieved value; the cumulative score goes to zero or below, due to the accumulation of one or more negative-scoring residue alignments; or the end of either sequence is reached. The BLAST algorithm parameters W, T, and X determine the sensitivity and speed of the alignment. The BLASTN program (for nucleotide sequences) uses as defaults a wordlength (W) of 11, an expectation (E) of 10, M=5, N=4 and a comparison of both strands. For amino acid sequences, the BLASTP program uses as defaults a wordlength of 3, and expectation (E) of 10, and the BLOSUM62 scoring matrix (see Henikoff & Henikoff, Proc. Natl. Acad. Sci. USA 89:10915 (1989)) alignments (B) of 50, expectation (E) of 10, M=5, N=4, and a comparison of both strands.

The BLAST algorithm also performs a statistical analysis of the similarity between two sequences (see, e.g., Karlin & Altschul, Proc. Nat'l. Acad. Sci. USA 90:5873-5787 (1993)). One measure of similarity provided by the BLAST algorithm is the smallest sum probability (P(N)), which provides an indication of the probability by which a match between two nucleotide or amino acid sequences would occur by chance. For example, a nucleic acid is considered similar to a reference sequence if the smallest sum probability in a comparison of the test nucleic acid to the reference nucleic acid is less than about 0.2, more preferably less than about 0.01, and most preferably less than about 0.001. Log values may be large negative numbers, e.g., 5, 10, 20, 30, 40, 40, 70, 90, 110, 150, 170, etc.

An indication that two nucleic acid sequences or polypeptides are substantially identical is that the polypeptide encoded by the first nucleic acid is immunologically cross reactive with the antibodies raised against the polypeptide encoded by the second nucleic acid, as described below. Thus, a polypeptide is typically substantially identical to a second polypeptide, e.g., where the two peptides differ only by conservative substitutions. Another indication that two nucleic acid sequences are substantially identical is that the two molecules

or their complements hybridize to each other under stringent conditions, as described below. Yet another indication that two nucleic acid sequences are substantially identical is that the same primers can be used to amplify the sequences.

A "host cell" is a naturally occurring cell or a transformed cell that contains an expression vector and supports the replication or expression of the expression vector. Host cells may be cultured cells, explants, cells *in vivo*, and the like. Host cells may be prokaryotic cells such as *E. coli*, or eukaryotic cells such as yeast, insect, amphibian, or mammalian cells such as CHO, HeLa, and the like (see, e.g., the American Type Culture Collection catalog or web site, www.atcc.org).

The terms "isolated," "purified," or "biologically pure" refer to material that is substantially or essentially free from components that normally accompany it as found in its native state. Purity and homogeneity are typically determined using analytical chemistry techniques such as polyacrylamide gel electrophoresis or high performance liquid chromatography. A protein or nucleic acid that is the predominant species present in a preparation is substantially purified. In particular, an isolated nucleic acid is separated from some open reading frames that naturally flank the gene and encode proteins other than protein encoded by the gene. The term "purified" in some embodiments denotes that a nucleic acid or protein gives rise to essentially one band in an electrophoretic gel. Preferably, it means that the nucleic acid or protein is at least 85% pure, more preferably at least 95% pure, and most preferably at least 99% pure. "Purify" or "purification" in other embodiments means removing at least one contaminant from the composition to be purified. In this sense, purification does not require that the purified compound be homogenous, e.g., 100% pure.

The terms "polypeptide," "peptide" and "protein" are used interchangeably herein to refer to a polymer of amino acid residues. The terms apply to amino acid polymers in which one or more amino acid residue is an artificial chemical mimetic of a corresponding naturally occurring amino acid, as well as to naturally occurring amino acid polymers, those containing modified residues, and non-naturally occurring amino acid polymer.

The term "amino acid" refers to naturally occurring and synthetic amino acids, as well as amino acid analogs and amino acid mimetics that function similarly to the naturally occurring amino acids. Naturally occurring amino acids are those encoded by the genetic code, as well as those amino acids that are later modified, e.g., hydroxyproline,  $\gamma$ -carboxyglutamate, and O-phosphoserine. Amino acid analogs refers to compounds that have the same basic chemical structure as a naturally occurring amino acid, e.g., an  $\alpha$  carbon that is bound to a hydrogen, a carboxyl group, an amino group, and an R group, e.g., homoserine,

norleucine, methionine sulfoxide, methionine methyl sulfonium. Such analogs may have modified R groups (e.g., norleucine) or modified peptide backbones, but retain the same basic chemical structure as a naturally occurring amino acid. Amino acid mimetics refers to chemical compounds that have a structure that is different from the general chemical structure of an amino acid, but that functions similarly to a naturally occurring amino acid.

Amino acids may be referred to herein by either their commonly known three letter symbols or by the one-letter symbols recommended by the IUPAC-IUB Biochemical Nomenclature Commission. Nucleotides, likewise, may be referred to by their commonly accepted single-letter codes.

"Conservatively modified variants" applies to both amino acid and nucleic acid sequences. With respect to particular nucleic acid sequences, conservatively modified variants refers to those nucleic acids which encode identical or essentially identical amino acid sequences, or where the nucleic acid does not encode an amino acid sequence, to essentially identical or associated, e.g., naturally contiguous, sequences. Because of the degeneracy of the genetic code, a large number of functionally identical nucleic acids encode most proteins. For instance, the codons GCA, GCC, GCG and GCU all encode the amino acid alanine. Thus, at every position where an alanine is specified by a codon, the codon can be altered to another of the corresponding codons described without altering the encoded polypeptide. Such nucleic acid variations are "silent variations," which are one species of conservatively modified variations. Every nucleic acid sequence herein which encodes a polypeptide also describes silent variations of the nucleic acid. One of skill will recognize that in certain contexts each codon in a nucleic acid (except AUG, which is ordinarily the only codon for methionine, and TGG, which is ordinarily the only codon for tryptophan) can be modified to yield a functionally identical molecule. Accordingly, often silent variations of a nucleic acid which encodes a polypeptide is implicit in a described sequence with respect to the expression product, but not with respect to actual probe sequences.

As to amino acid sequences, one of skill will recognize that individual substitutions, deletions or additions to a nucleic acid, peptide, polypeptide, or protein sequence which alters, adds or deletes a single amino acid or a small percentage of amino acids in the encoded sequence is a "conservatively modified variant" where the alteration results in the substitution of an amino acid with a chemically similar amino acid. Conservative substitution tables providing functionally similar amino acids are well known in the art. Such conservatively modified variants are in addition to and do not exclude polymorphic variants, interspecies homologs, and alleles of the invention.

The following eight groups each contain amino acids that are typically conservative substitutions for one another: 1) Alanine (A), Glycine (G); 2) Aspartic acid (D), Glutamic acid (E); 3) Asparagine (N), Glutamine (Q); 4) Arginine (R), Lysine (K); 5) Isoleucine (I), Leucine (L), Methionine (M), Valine (V); 6) Phenylalanine (F), Tyrosine (Y), Tryptophan (W); 7) Serine (S), Threonine (T); and 8) Cysteine (C), Methionine (M) (see, e.g., Creighton, Proteins (1984)).

Macromolecular structures such as polypeptide structures can be described in terms of various levels of organization. For a general discussion of this organization, see, e.g., Alberts et al., Molecular Biology of the Cell ( $3^{rd}$  ed., 1994) and Cantor & Schimmel, Biophysical Chemistry Part I: The Conformation of Biological Macromolecules (1980). "Primary structure" refers to the amino acid sequence of a particular peptide. "Secondary structure" refers to locally ordered, three dimensional structures within a polypeptide. These structures are commonly known as domains. Domains are portions of a polypeptide that often form a compact unit of the polypeptide and are typically 25 to approximately 500 amino acids long. Typical domains are made up of sections of lesser organization such as stretches of  $\beta$ -sheet and  $\alpha$ -helices. "Tertiary structure" refers to the complete three dimensional structure of a polypeptide monomer. "Quaternary structure" refers to the three dimensional structure formed, usually by the noncovalent association of independent tertiary units. Anisotropic terms are also known as energy terms.

"Nucleic acid" or "oligonucleotide" or "polynucleotide" or grammatical equivalents used herein means at least two nucleotides covalently linked together.

Oligonucleotides are typically from about 5, 6, 7, 8, 9, 10, 12, 15, 25, 30, 40, 50 or more nucleotides in length, up to about 100 nucleotides in length. Nucleic acids and polynucleotides are a polymers of any length, including longer lengths, e.g., 200, 300, 500, 1000, 2000, 3000, 5000, 7000, 10,000, etc. A nucleic acid of the present invention will generally contain phosphodiester bonds, although in some cases, nucleic acid analogs are included that may have alternate backbones, comprising, e.g., phosphoramidate, phosphorothioate, phosphorodithioate, or O-methylphophoroamidite linkages (see Eckstein, Oligonucleotides and Analogues: A Practical Approach, Oxford University Press); and peptide nucleic acid backbones and linkages. Other analog nucleic acids include those with positive backbones; non-ionic backbones, and non-ribose backbones, including those described in U.S. Patent Nos. 5,235,033 and 5,034,506, and Chapters 6 and 7, ASC Symposium Series 580, Carbohydrate Modifications in Antisense Research, Sanghui &

Cook, eds.. Nucleic acids containing one or more carbocyclic sugars are also included within one definition of nucleic acids. Modifications of the ribose-phosphate backbone may be done for a variety of reasons, e.g. to increase the stability and half-life of such molecules in physiological environments or as probes on a biochip. Mixtures of naturally occurring nucleic acids and analogs can be made; alternatively, mixtures of different nucleic acid analogs, and mixtures of naturally occurring nucleic acids and analogs may be made.

Particularly preferred are peptide nucleic acids (PNA) which includes peptide nucleic acid analogs. These backbones are substantially non-ionic under neutral conditions, in contrast to the highly charged phosphodiester backbone of naturally occurring nucleic acids. This results in two advantages. First, the PNA backbone exhibits improved hybridization kinetics. PNAs have larger changes in the melting temperature (T<sub>m</sub>) for mismatched versus perfectly matched basepairs. DNA and RNA typically exhibit a 2-4°C drop in T<sub>m</sub> for an internal mismatch. With the non-ionic PNA backbone, the drop is closer to 7-9°C. Similarly, due to their non-ionic nature, hybridization of the bases attached to these backbones is relatively insensitive to salt concentration. In addition, PNAs are not degraded by cellular enzymes, and thus can be more stable.

The nucleic acids may be single stranded or double stranded, as specified, or contain portions of both double stranded or single stranded sequence. As will be appreciated by those in the art, the depiction of a single strand also defines the sequence of the complementary strand; thus the sequences described herein also provide the complement of the sequence. The nucleic acid may be DNA, both genomic and cDNA, RNA or a hybrid, where the nucleic acid may contain combinations of deoxyribo- and ribo-nucleotides, and combinations of bases, including uracil, adenine, thymine, cytosine, guanine, inosine, xanthine hypoxanthine, isocytosine, isoguanine, etc. "Transcript" typically refers to a naturally occurring RNA, e.g., a pre-mRNA, hnRNA, or mRNA. As used herein, the term "nucleoside" includes nucleotides and nucleoside and nucleotide analogs, and modified nucleosides such as amino modified nucleosides. In addition, "nucleoside" includes non-naturally occurring analog structures. Thus, e.g. the individual units of a peptide nucleic acid, each containing a base, are referred to herein as a nucleoside.

A "label" or a "detectable moiety" is a composition detectable by spectroscopic, photochemical, biochemical, immunochemical, chemical, or other physical means. For example, useful labels include <sup>32</sup>P, fluorescent dyes, electron-dense reagents, enzymes (e.g., as commonly used in an ELISA), biotin, digoxigenin, or haptens and proteins

or other entities which can be made detectable, e.g., by incorporating a radiolabel into the peptide or used to detect antibodies specifically reactive with the peptide.

An "effector" or "effector moiety" or "effector component" is a molecule that is bound (or linked, or conjugated), either covalently, through a linker or a chemical bond, or noncovalently, through ionic, van der Waals, electrostatic, or hydrogen bonds, to an antibody. The "effector" can be a variety of molecules including, e.g., detection moieties including radioactive compounds, fluorescent compounds, an enzyme or substrate, tags such as epitope tags, a toxin; activatable moieties, a chemotherapeutic agent; a lipase; an antibiotic; or a radioisotope emitting "hard" e.g., beta radiation.

A "labeled nucleic acid probe or oligonucleotide" is one that is bound, either covalently, through a linker or a chemical bond, or noncovalently, through ionic, van der Waals, electrostatic, or hydrogen bonds to a label such that the presence of the probe may be detected by detecting the presence of the label bound to the probe. Alternatively, method using high affinity interactions may achieve the same results where one of a pair of binding partners binds to the other, e.g., biotin, streptavidin.

As used herein a "nucleic acid probe or oligonucleotide" is defined as a nucleic acid capable of binding to a target nucleic acid of complementary sequence through one or more types of chemical bonds, usually through complementary base pairing, usually through hydrogen bond formation. As used herein, a probe may include natural (i.e., A, G, C, or T) or modified bases (7-deazaguanosine, inosine, etc.). In addition, the bases in a probe may be joined by a linkage other than a phosphodiester bond, so long as it does not functionally interfere with hybridization. Thus, e.g., probes may be peptide nucleic acids in which the constituent bases are joined by peptide bonds rather than phosphodiester linkages. It will be understood by one of skill in the art that probes may bind target sequences lacking complete complementarity with the probe sequence depending upon the stringency of the hybridization conditions. The probes are preferably directly labeled as with isotopes, chromophores, lumiphores, chromogens, or indirectly labeled such as with biotin to which a streptavidin complex may later bind. By assaying for the presence or absence of the probe, one can detect the presence or absence of the select sequence or subsequence. Diagnosis or prognosis may be based at the genomic level, or at the level of RNA or protein expression.

The term "recombinant" when used with reference, e.g., to a cell, or nucleic acid, protein, or vector, indicates that the cell, nucleic acid, protein or vector, has been modified by the introduction of a heterologous nucleic acid or protein or the alteration of a native nucleic acid or protein, or that the cell is derived from a cell so modified. Thus, e.g.,

recombinant cells express genes that are not found within the native (non-recombinant) form of the cell or express native genes that are otherwise abnormally expressed, under expressed or not expressed at all. By the term "recombinant nucleic acid" herein is meant nucleic acid, originally formed *in vitro*, in general, by the manipulation of nucleic acid, e.g., using polymerases and endonucleases, in a form not normally found in nature. In this manner, operably linkage of different sequences is achieved. Thus an isolated nucleic acid, in a linear form, or an expression vector formed *in vitro* by ligating DNA molecules that are not normally joined, are both considered recombinant for the purposes of this invention. It is understood that once a recombinant nucleic acid is made and reintroduced into a host cell or organism, it will replicate non-recombinantly, i.e., using the *in vivo* cellular machinery of the host cell rather than *in vitro* manipulations; however, such nucleic acids, once produced recombinantly, although subsequently replicated non-recombinantly, are still considered recombinant for the purposes of the invention. Similarly, a "recombinant protein" is a protein made using recombinant techniques, i.e., through the expression of a recombinant nucleic acid as depicted above.

The term "heterologous" when used with reference to portions of a nucleic acid indicates that the nucleic acid comprises two or more subsequences that are not normally found in the same relationship to each other in nature. For instance, the nucleic acid is typically recombinantly produced, having two or more sequences, e.g., from unrelated genes arranged to make a new functional nucleic acid, e.g., a promoter from one source and a coding region from another source. Similarly, a heterologous protein will often refer to two or more subsequences that are not found in the same relationship to each other in nature (e.g., a fusion protein).

A "promoter" is defined as an array of nucleic acid control sequences that direct transcription of a nucleic acid. As used herein, a promoter includes necessary nucleic acid sequences near the start site of transcription, such as, in the case of a polymerase II type promoter, a TATA element. A promoter also optionally includes distal enhancer or repressor elements, which can be located as much as several thousand base pairs from the start site of transcription. A "constitutive" promoter is a promoter that is active under most environmental and developmental conditions. An "inducible" promoter is a promoter that is active under environmental or developmental regulation. The term "operably linked" refers to a functional linkage between a nucleic acid expression control sequence (such as a promoter, or array of transcription factor binding sites) and a second nucleic acid sequence,

wherein the expression control sequence directs transcription of the nucleic acid corresponding to the second sequence.

An "expression vector" is a nucleic acid construct, generated recombinantly or synthetically, with a series of specified nucleic acid elements that permit transcription of a particular nucleic acid in a host cell. The expression vector can be part of a plasmid, virus, or nucleic acid fragment. Typically, the expression vector includes a nucleic acid to be transcribed operably linked to a promoter.

The phrase "selectively (or specifically) hybridizes to" refers to the binding, duplexing, or hybridizing of a molecule only to a particular nucleotide sequence under stringent hybridization conditions when that sequence is present in a complex mixture (e.g., total cellular or library DNA or RNA).

The phrase "stringent hybridization conditions" refers to conditions under which a probe will hybridize to its target subsequence, typically in a complex mixture of nucleic acids, but to essentially no other sequences. Stringent conditions are sequencedependent and will be different in different circumstances. Longer sequences hybridize specifically at higher temperatures. An extensive guide to the hybridization of nucleic acids is found in Tijssen, Techniques in Biochemistry and Molecular Biology-Hybridization with Nucleic Probes, "Overview of principles of hybridization and the strategy of nucleic acid assays" (1993). Generally, stringent conditions are selected to be about 5-10°C lower than the thermal melting point (T<sub>m</sub>) for the specific sequence at a defined ionic strength pH. The T<sub>m</sub> is the temperature (under defined ionic strength, pH, and nucleic concentration) at which 50% of the probes complementary to the target hybridize to the target sequence at equilibrium (as the target sequences are present in excess, at  $T_{mb}$  50% of the probes are occupied at equilibrium). Stringent conditions will be those in which the salt concentration is less than about 1.0 M sodium ion, typically about 0.01 to 1.0 M sodium ion concentration (or other salts) at pH 7.0 to 8.3 and the temperature is at least about 30°C for short probes (e.g., 10 to 50 nucleotides) and at least about 60°C for long probes (e.g., greater than 50 nucleotides). Stringent conditions may also be achieved with the addition of destabilizing agents such as formamide. For selective or specific hybridization, a positive signal is at least two times background, preferably 10 times background hybridization. Exemplary stringent hybridization conditions are often: 50% formamide, 5x SSC, and 1% SDS, incubating at 42°C, or, 5x SSC, 1% SDS, incubating at 65°C, with wash in 0.2x SSC, and 0.1% SDS at 65°C. For PCR, a temperature of about 36°C is typical for low stringency amplification,

although annealing temperatures may vary between about 32°C and 48°C depending on primer length. For high stringency PCR amplification, a temperature of about 62°C is typical, although high stringency annealing temperatures can range from about 50°C to about 65°C, depending on the primer length and specificity. Typical cycle conditions for both high and low stringency amplifications include a denaturation phase of 90°C - 95°C for 30 sec - 2 min., an annealing phase lasting 30 sec. - 2 min., and an extension phase of about 72°C for 1 - 2 min. Protocols and guidelines for low and high stringency amplification reactions are provided, e.g., in Innis et al., PCR Protocols, A Guide to Methods and Applications (1990).

Nucleic acids that do not hybridize to each other under stringent conditions are still substantially identical if the polypeptides which they encode are substantially identical. This occurs, e.g., when a copy of a nucleic acid is created using the maximum codon degeneracy permitted by the genetic code. In such cases, the nucleic acids typically hybridize under moderately stringent hybridization conditions. Exemplary "moderately stringent hybridization conditions" include a hybridization in a buffer of 40% formamide, 1 M NaCl, 1% SDS at 37°C, and a wash in 1X SSC at 45°C. A positive hybridization is at least twice background. Those of ordinary skill will readily recognize that alternative hybridization and wash conditions can be utilized to provide conditions of similar stringency. Additional guidelines for determining hybridization parameters are provided in numerous reference, e.g., and Current Protocols in Molecular Biology, ed. Ausubel, et al.

The phrase "functional effects" in the context of assays for testing compounds that modulate activity of a metastatic colorectal cancer protein includes the determination of a parameter that is indirectly or directly under the influence of the metastatic colorectal cancer protein or nucleic acid, e.g., an enzymatic, functional, physical, or chemical effect, such as the ability to decrease metastatic colorectal cancer. It includes ligand binding activity; cell growth on soft agar; anchorage dependence; contact inhibition and density limitation of growth; cellular proliferation; cellular transformation; growth factor or serum dependence; tumor specific marker levels; invasiveness into Matrigel; tumor growth and metastasis in vivo; mRNA and protein expression in cells undergoing metastasis, and other characteristics of metastatic colorectal cancer cells. "Functional effects" include in vitro, in vivo, and ex vivo activities.

By "determining the functional effect" is meant assaying for a compound that increases or decreases a parameter that is indirectly or directly under the influence of a metastatic colorectal cancer protein sequence, e.g., functional, enzymatic, physical and

chemical effects. Such functional effects can be measured by any means known to those skilled in the art, e.g., changes in spectroscopic characteristics (e.g., fluorescence, absorbance, refractive index), hydrodynamic (e.g., shape), chromatographic, or solubility properties for the protein, measuring inducible markers or transcriptional activation of the metastatic colorectal cancer protein; measuring binding activity or binding assays, e.g., binding to antibodies or other ligands, and measuring cellular proliferation. Determination of the functional effect of a compound on metastatic colorectal cancer can also be performed using metastatic colorectal cancer assays known to those of skill in the art such as an in vitro assays, e.g., cell growth on soft agar; anchorage dependence; contact inhibition and density limitation of growth; cellular proliferation; cellular transformation; growth factor or serum dependence; tumor specific marker levels; invasiveness into Matrigel; tumor growth and metastasis in vivo; mRNA and protein expression in cells undergoing metastasis, and other characteristics of metastatic colorectal cancer cells. The functional effects can be evaluated by many means known to those skilled in the art, e.g., microscopy for quantitative or qualitative measures of alterations in morphological features, measurement of changes in RNA or protein levels for metastatic colorectal cancer-associated sequences, measurement of RNA stability, identification of downstream or reporter gene expression (CAT, luciferase, βgal, GFP and the like), e.g., via chemiluminescence, fluorescence, colorimetric reactions, antibody binding, inducible markers, and ligand binding assays.

"Inhibitors", "activators", and "modulators" of metastatic colorectal cancer polynucleotide and polypeptide sequences are used to refer to activating, inhibitory, or modulating molecules or compounds identified using *in vitro* and *in vivo* assays of metastatic colorectal cancer polynucleotide and polypeptide sequences of the invention. Inhibitors are compounds that, e.g., bind to, partially or totally block activity, decrease, prevent, delay activation, inactivate, desensitize, or down regulate the activity or expression of metastatic colorectal cancer proteins of the invention, e.g., antagonists. Antisense nucleic acids may seem to inhibit expression and subsequent function of the protein. "Activators" are compounds that increase, open, activate, facilitate, enhance activation, sensitize, agonize, or up regulate metastatic colorectal cancer protein activity. Inhibitors, activators, or modulators also include genetically modified versions of metastatic colorectal cancer proteins, e.g., versions with altered activity, as well as naturally occurring and synthetic ligands, antagonists, agonists, antibodies, small chemical molecules and the like. Such assays for inhibitors and activators include, e.g., expressing the metastatic colorectal cancer protein *in vitro*, in cells, or cell membranes, applying putative modulator compounds, and then

determining the functional effects on activity, as described above. Activators and inhibitors of metastatic colorectal cancer can also be identified by incubating metastatic colorectal cancer cells with the test compound and determining increases or decreases in the expression of 1 or more metastatic colorectal cancer proteins, e.g., 1, 2, 3, 4, 5, 10, 15, 20, 25, 30, 40, 50 or more metastatic colorectal cancer proteins, such as colorectal cancer proteins encoded by the sequences set out in Tables 1-26.

Samples or assays comprising metastatic colorectal cancer proteins that are treated with a potential activator, inhibitor, or modulator are compared to control samples without the inhibitor, activator, or modulator to examine the extent of inhibition. Control samples (untreated with inhibitors) are assigned a relative protein activity value of 100%. Inhibition of a polypeptide is achieved when the activity value relative to the control is about 80%, preferably 50%, more preferably 25-0%. Activation of a metastatic colorectal cancer polypeptide is achieved when the activity value relative to the control (untreated with \_\_\_\_\_\_\_ activators) is 110%, more preferably 150%, more preferably 200-500% (i.e., two to five fold higher relative to the control), more preferably 1000-3000% higher.

The phrase "changes in cell growth" refers to any change in cell growth and proliferation characteristics in vitro or in vivo, such as formation of foci, anchorage independence, semi-solid or soft agar growth, changes in contact inhibition and density limitation of growth, loss of growth factor or serum requirements, changes in cell morphology, gaining or losing immortalization, gaining or losing tumor specific markers, ability to form or suppress tumors when injected into suitable animal hosts, and/or immortalization of the cell. See, e.g., Freshney, Culture of Animal Cells a Manual of Basic Technique pp. 231-241 (3<sup>rd</sup> ed. 1994).

"Tumor cell" refers to precancerous, cancerous, and normal cells in a tumor.

"Cancer cells," "transformed" cells or "transformation" in tissue culture, refers to spontaneous or induced phenotypic changes that do not necessarily involve the uptake of new genetic material. Although transformation can arise from infection with a transforming virus and incorporation of new genomic DNA, or uptake of exogenous DNA, it can also arise spontaneously or following exposure to a carcinogen, thereby mutating an endogenous gene. Transformation is associated with phenotypic changes, such as immortalization of cells, aberrant growth control, nonmorphological changes, and/or malignancy (see, Freshney, Culture of Animal Cells a Manual of Basic Technique (3<sup>rd</sup> ed. 1994)).

"Antibody" refers to a polypeptide comprising a framework region from an immunoglobulin gene or fragments thereof that specifically binds and recognizes an antigen.

The recognized immunoglobulin genes include the kappa, lambda, alpha, gamma, delta, epsilon, and mu constant region genes, as well as the myriad immunoglobulin variable region genes. Light chains are classified as either kappa or lambda. Heavy chains are classified as gamma, mu, alpha, delta, or epsilon, which in turn define the immunoglobulin classes, IgG, IgM, IgA, IgD and IgE, respectively. Typically, the antigen-binding region of an antibody or its functional equivalent will be most critical in specificity and affinity of binding. See Paul, Fundamental Immunology.

An exemplary immunoglobulin (antibody) structural unit comprises a tetramer. Each tetramer is composed of two identical pairs of polypeptide chains, each pair having one "light" (about 25 kD) and one "heavy" chain (about 50-70 kD). The N-terminus of each chain defines a variable region of about 100 to 110 or more amino acids primarily responsible for antigen recognition. The terms variable light chain (V<sub>L</sub>) and variable heavy chain (V<sub>H</sub>) refer to these light and heavy chains respectively.

Antibodies exist, e.g., as intact immunoglobulins or as a number of well-characterized fragments produced by digestion with various peptidases. Thus, e.g., pepsin digests an antibody below the disulfide linkages in the hinge region to produce F(ab')<sub>2</sub>, a dimer of Fab which itself is a light chain joined to V<sub>H</sub>-C<sub>H</sub>1 by a disulfide bond. The F(ab')<sub>2</sub> may be reduced under mild conditions to break the disulfide linkage in the hinge region, thereby converting the F(ab')<sub>2</sub> dimer into an Fab' monomer. The Fab' monomer is essentially Fab with part of the hinge region (see Fundamental Immunology (Paul ed., 3d ed. 1993). While various antibody fragments are defined in terms of the digestion of an intact antibody, one of skill will appreciate that such fragments may be synthesized de novo either chemically or by using recombinant DNA methodology. Thus, the term antibody, as used herein, also includes antibody fragments either produced by the modification of whole antibodies, or those synthesized de novo using recombinant DNA methodologies (e.g., single chain Fv) or those identified using phage display libraries (see, e.g., McCafferty et al., Nature 348:552-554 (1990))

For preparation of antibodies, e.g., recombinant, monoclonal, or polyclonal antibodies, many technique known in the art can be used (see, e.g., Kohler & Milstein, Nature 256:495-497 (1975); Kozbor et al., Immunology Today 4:72 (1983); Cole et al., pp. 77-96 in Monoclonal Antibodies and Cancer Therapy (1985); Coligan, Current Protocols in Immunology (1991); Harlow & Lane, Antibodies, A Laboratory Manual (1988); and Goding, Monoclonal Antibodies: Principles and Practice (2d ed. 1986)). Techniques for the production of single chain antibodies (U.S. Patent 4,946,778) can be adapted to produce

antibodies to polypeptides of this invention. Also, transgenic mice, or other organisms such as other mammals, may be used to express humanized antibodies. Alternatively, phage display technology can be used to identify antibodies and heteromeric Fab fragments that specifically bind to selected antigens (see, e.g., McCafferty et al., Nature 348:552-554 (1990); Marks et al., Biotechnology 10:779-783 (1992)).

A "chimeric antibody" is an antibody molecule in which, e.g, (a) the constant region, or a portion thereof, is altered, replaced or exchanged so that the antigen binding site (variable region) is linked to a constant region of a different or altered class, effector function and/or species, or an entirely different molecule which confers new properties to the chimeric antibody, e.g., an enzyme, toxin, hormone, growth factor, drug, etc.; or (b) the variable region, or a portion thereof, is altered, replaced or exchanged with a variable region having a different or altered antigen specificity.

### Identification of metastatic colorectal cancer-associated sequences

In one aspect, the expression levels of genes are determined in different patient samples for which diagnosis information is desired, to provide expression profiles. An expression profile of a particular sample is essentially a "fingerprint" of the state of the sample; while two states may have any particular gene similarly expressed, the evaluation of a number of genes simultaneously allows the generation of a gene expression profile that is characteristic of the state of the cell. That is, normal tissue may be distinguished from cancerous or metastatic cancerous tissue, or metastatic cancerous tissue can be compared with tissue from surviving cancer patients. By comparing expression profiles of tissue in known different metastatic colorectal cancer states, information regarding which genes are important (including both up- and down-regulation of genes) in each of these states is obtained.

The identification of sequences that are differentially expressed in metastatic colorectal cancer versus non-metastatic colorectal cancer tissue allows the use of this information in a number of ways. For example, a particular treatment regime may be evaluated: does a chemotherapeutic drug act to down-regulate metastatic colorectal cancer, and thus tumor growth or recurrence, in a particular patient. Similarly, diagnosis and treatment outcomes may be done or confirmed by comparing patient samples with the known expression profiles. Metastatic tissue can also be analyzed to determine the stage of metastatic colorectal cancer in the tissue. Furthermore, these gene expression profiles (or individual genes) allow screening of drug candidates with an eye to mimicking or altering a

particular expression profile; e.g., screening can be done for drugs that suppress the metastatic colorectal cancer expression profile. This may be done by making biochips comprising sets of the important metastatic colorectal cancer genes, which can then be used in these screens. PCR methods may be applied with selected primer pairs, and analysis may be of RNA or of genomic sequences. These methods can also be done on the protein basis; that is, protein expression levels of the metastatic colorectal cancer proteins can be evaluated for diagnostic purposes or to screen candidate agents. In addition, the metastatic colorectal cancer nucleic acid sequences can be administered for gene therapy purposes, including the administration of antisense nucleic acids, or the metastatic colorectal cancer proteins (including antibodies and other modulators thereof) administered as therapeutic drugs or as protein or DNA vaccines.

Thus the present invention provides nucleic acid and protein sequences that are differentially expressed in metastatic colorectal cancer, herein termed "metastatic colorectal cancer sequences include those that are up-regulated (i.e., expressed at a higher level) in metastatic colorectal cancer, as well as those that are down-regulated (i.e., expressed at a lower level). In a preferred embodiment, the metastatic colorectal cancer sequences are from humans; however, as will be appreciated by those in the art, metastatic colorectal cancer sequences from other organisms may be useful in animal models of disease and drug evaluation; thus, other metastatic colorectal cancer sequences are provided, from vertebrates, including mammals, including rodents (rats, mice, hamsters, guinea pigs, etc.), primates, farm animals (including sheep, goats, pigs, cows, horses, etc.) and pets (dogs, cats, etc.). Metastatic colorectal cancer sequences from other organisms may be obtained using the techniques outlined below.

Metastatic colorectal cancer sequences can include both nucleic acid and amino acid sequences. As will be appreciated by those in the art and is more fully outlined below, metastatic colorectal cancer nucleic acid sequences are useful in a variety of applications, including diagnostic applications, which will detect naturally occurring nucleic acids, as well as screening applications; e.g., biochips comprising nucleic acid probes or PCR microtiter plates with selected probes to the metastatic colorectal cancer sequences can be generated.

A metastatic colorectal cancer sequence can be initially identified by substantial nucleic acid and/or amino acid sequence homology to the metastatic colorectal cancer sequences outlined herein. Such homology can be based upon the overall nucleic acid

or amino acid sequence, and is generally determined as outlined below, using either homology programs or hybridization conditions.

For identifying metastatic colorectal cancer-associated sequences, the metastatic colorectal cancer screen typically includes comparing genes identified in different tissues, e.g., normal and cancerous tissues, or tumor tissue samples from patients who have metastatic disease vs. non metastatic tissue, or tumor tissue samples from patients who have been diagnosed with Dukes stage A or B cancer but have survived vs. metastatic tissue. Other suitable tissue comparisons include comparing metastatic colorectal cancer samples with metastatic cancer samples from other cancers, such as lung, breast, other gastrointestinal cancers, prostate, ovarian, etc. Samples of, e.g., Dukes stage B survivor tissue and tissue undergoing metastasis are applied to biochips comprising nucleic acid probes. The samples are first microdissected, if applicable, and treated as is known in the art for the preparation of mRNA. Suitable biochips are commercially available, e.g., from Affymetrix. Gene expression profiles as described herein are generated and the data analyzed.

In one embodiment, the genes showing changes in expression as between normal and disease states are compared to genes expressed in other normal tissues, preferably normal colon, but also including, and not limited to lung, heart, brain, liver, breast, kidney, muscle, prostate, small intestine, large intestine, spleen, bone and placenta. In a preferred embodiment, those genes identified during the metastatic colorectal cancer screen that are expressed in significant amounts in other tissues are removed from the profile, although in some embodiments, this is not necessary. That is, when screening for drugs, it is usually preferable that the target be disease specific, to minimize possible side effects.

In a preferred embodiment, metastatic colorectal cancer sequences are those that are up-regulated in metastatic colorectal cancer; that is, the expression of these genes is higher in the metastatic tissue as compared to non-metastatic cancerous tissue or normal colon tissue (see, e.g., Tables 1-26). "Up-regulation" as used herein means, when the ratio is presented as a number greater than one, that the ratio is greater than one, preferably 1.5 or greater, more preferably 2.0 or greater. All UniGene cluster identification numbers and accession numbers herein are for the GenBank sequence database and the sequences of the accession numbers are hereby expressly incorporated by reference. GenBank is known in the art, see, e.g., Benson, DA, et al., Nucleic Acids Research 26:1-7 (1998) and http://www.ncbi.nlm.nih.gov/. Sequences are also available in other databases, e.g., European Molecular Biology Laboratory (EMBL) and DNA Database of Japan (DDBJ).

In another preferred embodiment, metastatic colorectal cancer sequences are those that are down-regulated in the metastatic colorectal cancer; that is, the expression of these genes is lower in metastatic tissue as compared to non-metastatic cancerous tissue or normal colon tissue (see, e.g., Tables 1-26). "Down-regulation" as used herein means, when the ratio is presented as a number greater than one, that the ratio is greater than one, preferably 1.5 or greater, more preferably 2.0 or greater, or, when the ratio is presented as a number less than one, that the ratio is less than one, preferably 0.5 or less, more preferably 0.25 or less.

#### **Informatics**

The ability to identify genes that are over or under expressed in metastatic colorectal cancer can additionally provide high-resolution, high-sensitivity datasets which can be used in the areas of diagnostics, therapeutics, drug development, pharmacogenetics, protein structure, biosensor development, and other related areas. For example, the expression profiles can be used in diagnostic or prognostic evaluation of patients with metastatic colorectal cancer. Or as another example, subcellular toxicological information can be generated to better direct drug structure and activity correlation (see Anderson, Pharmaceutical Proteomics: Targets, Mechanism, and Function, paper presented at the IBC Proteomics conference, Coronado, CA (June 11-12, 1998)). Subcellular toxicological information can also be utilized in a biological sensor device to predict the likely toxicological effect of chemical exposures and likely tolerable exposure thresholds (see U.S. Patent No. 5,811,231). Similar advantages accrue from datasets relevant to other biomolecules and bioactive agents (e.g., nucleic acids, saccharides, lipids, drugs, and the like).

Thus, in another embodiment, the present invention provides a database that includes at least one set of assay data. The data contained in the database is acquired, e.g., using array analysis either singly or in a library format. The database can be in substantially any form in which data can be maintained and transmitted, but is preferably an electronic database. The electronic database of the invention can be maintained on any electronic device allowing for the storage of and access to the database, such as a personal computer, but is preferably distributed on a wide area network, such as the World Wide Web.

The focus of the present section on databases that include peptide sequence data is for clarity of illustration only. It will be apparent to those of skill in the art that similar databases can be assembled for assay data acquired using an assay of the invention.

The compositions and methods for identifying and/or quantitating the relative and/or absolute abundance of a variety of molecular and macromolecular species from a biological sample undergoing metastatic colorectal cancer, i.e., the identification of metastatic colorectal cancer-associated sequences described herein, provide an abundance of information, which can be correlated with pathological conditions, predisposition to disease, drug testing, therapeutic monitoring, gene-disease causal linkages, identification of correlates of immunity and physiological status, among others. Although the data generated from the assays of the invention is suited for manual review and analysis, in a preferred embodiment, prior data processing using high-speed computers is utilized.

An array of methods for indexing and retrieving biomolecular information is known in the art. For example, U.S. Patents 6,023,659 and 5,966,712 disclose a relational database system for storing biomolecular sequence information in a manner that allows sequences to be catalogued and searched according to one or more protein function hierarchies. U.S. Patent 5,953,727 discloses a relational database having sequence records containing information in a format that allows a collection of partial-length DNA sequences to be catalogued and searched according to association with one or more sequencing projects for obtaining full-length sequences from the collection of partial length sequences. U.S. Patent 5,706,498 discloses a gene database retrieval system for making a retrieval of a gene sequence similar to a sequence data item in a gene database based on the degree of similarity between a key sequence and a target sequence. U.S. Patent 5,538,897 discloses a method using mass spectroscopy fragmentation patterns of peptides to identify amino acid sequences in computer databases by comparison of predicted mass spectra with experimentally-derived mass spectra using a closeness-of-fit measure. U.S. Patent 5,926,818 discloses a multidimensional database comprising a functionality for multi-dimensional data analysis described as on-line analytical processing (OLAP), which entails the consolidation of projected and actual data according to more than one consolidation path or dimension. U.S. Patent 5,295,261 reports a hybrid database structure in which the fields of each database record are divided into two classes, navigational and informational data, with navigational fields stored in a hierarchical topological map which can be viewed as a tree structure or as the merger of two or more such tree structures.

See also Mount et al., Bioinformatics (2001); Biological Sequence Analysis: Probabilistic Models of Proteins and Nucleic Acids (Durbin et al., eds., 1999); Bioinformatics: A Practical Guide to the Analysis of Genes and Proteins (Baxevanis & Oeullette eds., 1998)); Rashidi & Buehler, Bioinformatics: Basic Applications in Biological

Science and Medicine (1999); Introduction to Computational Molecular Biology (Setubal et al., eds 1997); Bioinformatics: Methods and Protocols (Misener & Krawetz, eds, 2000); Bioinformatics: Sequence, Structure, and Databanks: A Practical Approach (Higgins & Taylor, eds., 2000); Brown, Bioinformatics: A Biologist's Guide to Biocomputing and the Internet (2001); Han & Kamber, Data Mining: Concepts and Techniques (2000); and Waterman, Introduction to Computational Biology: Maps, Sequences, and Genomes (1995).

The present invention provides a computer database comprising a computer and software for storing in computer-retrievable form assay data records cross-tabulated, e.g., with data specifying the source of the target-containing sample from which each sequence specificity record was obtained.

In an exemplary embodiment, at least one of the sources of target-containing sample is from a control tissue sample known to be free of pathological disorders. In a variation, at least one of the sources is a known pathological tissue specimen, e.g., a neoplastic lesion or another tissue specimen to be analyzed for metastatic colorectal cancer. In another variation, the assay records cross-tabulate one or more of the following parameters for each target species in a sample: (1) a unique identification code, which can include, e.g., a target molecular structure and/or characteristic separation coordinate (e.g., electrophoretic coordinates); (2) sample source; and (3) absolute and/or relative quantity of the target species present in the sample.

The invention also provides for the storage and retrieval of a collection of target data in a computer data storage apparatus, which can include magnetic disks, optical disks, magneto-optical disks, DRAM, SRAM, SGRAM, SDRAM, RDRAM, DDR RAM, magnetic bubble memory devices, and other data storage devices, including CPU registers and on-CPU data storage arrays. Typically, the target data records are stored as a bit pattern in an array of magnetic domains on a magnetizable medium or as an array of charge states or transistor gate states, such as an array of cells in a DRAM device (e.g., each cell comprised of a transistor and a charge storage area, which may be on the transistor). In one embodiment, the invention provides such storage devices, and computer systems built therewith, comprising a bit pattern encoding a protein expression fingerprint record comprising unique identifiers for at least 10 target data records cross-tabulated with target source.

When the target is a peptide or nucleic acid, the invention preferably provides a method for identifying related peptide or nucleic acid sequences, comprising performing a computerized comparison between a peptide or nucleic acid sequence assay record stored in or retrieved from a computer storage device or database and at least one other sequence. The

comparison can include a sequence analysis or comparison algorithm or computer program embodiment thereof (e.g., FASTA, TFASTA, GAP, BESTFIT) and/or the comparison may be of the relative amount of a peptide or nucleic acid sequence in a pool of sequences determined from a polypeptide or nucleic acid sample of a specimen.

The invention also preferably provides a magnetic disk, such as an IBM-compatible (DOS, Windows, Windows95/98/2000, Windows NT, OS/2) or other format (e.g., Linux, SunOS, Solaris, AIX, SCO Unix, VMS, MV, Macintosh, etc.) floppy diskette or hard (fixed, Winchester) disk drive, comprising a bit pattern encoding data from an assay of the invention in a file format suitable for retrieval and processing in a computerized sequence analysis, comparison, or relative quantitation method.

The invention also provides a network, comprising a plurality of computing devices linked via a data link, such as an Ethernet cable (coax or 10BaseT), telephone line, ISDN line, wireless network, optical fiber, or other suitable signal transmission medium, whereby at least one network device (e.g., computer, disk array, etc.) comprises a pattern of magnetic domains (e.g., magnetic disk) and/or charge domains (e.g., an array of DRAM cells) composing a bit pattern encoding data acquired from an assay of the invention.

The invention also provides a method for transmitting assay data that includes generating an electronic signal on an electronic communications device, such as a modem, ISDN terminal adapter, DSL, cable modem, ATM switch, or the like, wherein the signal includes (in native or encrypted format) a bit pattern encoding data from an assay or a database comprising a plurality of assay results obtained by the method of the invention.

In a preferred embodiment, the invention provides a computer system for comparing a query target to a database containing an array of data structures, such as an assay result obtained by the method of the invention, and ranking database targets based on the degree of identity and gap weight to the target data. A central processor is preferably initialized to load and execute the computer program for alignment and/or comparison of the assay results. Data for a query target is entered into the central processor via an I/O device. Execution of the computer program results in the central processor retrieving the assay data from the data file, which comprises a binary description of an assay result.

The target data or record and the computer program can be transferred to secondary memory, which is typically random access memory (e.g., DRAM, SRAM, SGRAM, or SDRAM). Targets are ranked according to the degree of correspondence between a selected assay characteristic (e.g., binding to a selected affinity moiety) and the same characteristic of the query target and results are output via an I/O device. For example,

a central processor can be a conventional computer (e.g., Intel Pentium, PowerPC, Alpha, PA-8000, SPARC, MIPS 4400, MIPS 10000, VAX, etc.); a program can be a commercial or public domain molecular biology software package (e.g., UWGCG Sequence Analysis Software, Darwin); a data file can be an optical or magnetic disk, a data server, a memory device (e.g., DRAM, SRAM, SGRAM, SDRAM, EPROM, bubble memory, flash memory, etc.); an I/O device can be a terminal comprising a video display and a keyboard, a modem, an ISDN terminal adapter, an Ethernet port, a punched card reader, a magnetic strip reader, or other suitable I/O device.

The invention also preferably provides the use of a computer system, such as that described above, which comprises: (1) a computer; (2) a stored bit pattern encoding a collection of peptide sequence specificity records obtained by the methods of the invention, which may be stored in the computer; (3) a comparison target, such as a query target; and (4) a program for alignment and comparison, typically with rank-ordering of comparison results on the basis of computed similarity values.

#### Characteristics of metastatic colorectal cancer-associated proteins

Metastatic colorectal cancer proteins of the present invention may be classified as secreted proteins, transmembrane proteins or intracellular proteins. In one embodiment, the metastatic colorectal cancer protein is an intracellular protein. Intracellular proteins may be found in the cytoplasm and/or in the nucleus and/or in the organelles. Proteins containing one or more transmembrane domains that exclusively reside in organelles are also considered intracellular proteins. Intracellular proteins are involved in all aspects of cellular function and replication (including, e.g., signaling pathways); aberrant expression of such proteins often results in unregulated or disregulated cellular processes (see, e.g., Molecular Biology of the Cell (Alberts, ed., 3rd ed., 1994). For example, many intracellular proteins have enzymatic activity such as protein kinase activity, protein phosphatase activity, protease activity, nucleotide cyclase activity, polymerase activity and the like. Intracellular proteins also serve as docking proteins that are involved in organizing complexes of proteins, or targeting proteins to various subcellular localizations, and are involved in maintaining the structural integrity of organelles.

An increasingly appreciated concept in characterizing proteins is the presence in the proteins of one or more motifs for which defined functions have been attributed. In addition to the highly conserved sequences found in the enzymatic domain of proteins, highly conserved sequences have been identified in proteins that are involved in protein-protein

interaction. For example, Src-homology-2 (SH2) domains bind tyrosine-phosphorylated targets in a sequence dependent manner. PTB domains, which are distinct from SH2 domains, also bind tyrosine phosphorylated targets. SH3 domains bind to proline-rich targets. In addition, PH domains, tetratricopeptide repeats and WD domains to name only a few, have been shown to mediate protein-protein interactions. Some of these may also be involved in binding to phospholipids or other second messengers. As will be appreciated by one of ordinary skill in the art, these motifs can be identified on the basis of primary sequence; thus, an analysis of the sequence of proteins may provide insight into both the enzymatic potential of the molecule and/or molecules with which the protein may associate. One useful database is Pfam (protein families), which is a large collection of multiple sequence alignments and hidden Markov models covering many common protein domains. Versions are available via the internet from Washington University in St. Louis, the Sanger Center in England, and the Karolinska Institute in Sweden (see, e.g., Bateman et al., Nuc. Acids Res. 28:263-266 (2000); Sonnhammer et al., Proteins 28:405-420 (1997); Bateman et al., Nuc. Acids Res. 27:260-262 (1999); and Sonnhammer et al., Nuc. Acids Res. 26:320-322-(1998)).

In another embodiment, the metastatic colorectal cancer sequences are transmembrane proteins. Transmembrane proteins are molecules that span a phospholipid bilayer of a cell. They may have an intracellular domain, an extracellular domain, or both. The intracellular domains of such proteins may have a number of functions including those already described for intracellular proteins. For example, the intracellular domain may have enzymatic activity and/or may serve as a binding site for additional proteins. Frequently the intracellular domain of transmembrane proteins serves both roles. For example certain receptor tyrosine kinases have both protein kinase activity and SH2 domains. In addition, autophosphorylation of tyrosines on the receptor molecule itself, creates binding sites for additional SH2 domain containing proteins.

Transmembrane proteins may contain from one to many transmembrane domains. For example, receptor tyrosine kinases, certain cytokine receptors, receptor guanylyl cyclases and receptor serine/threonine protein kinases contain a single transmembrane domain. However, various other proteins including channels, pumps, and adenylyl cyclases contain numerous transmembrane domains. Many important cell surface receptors such as G protein coupled receptors (GPCRs) are classified as "seven transmembrane domain" proteins, as they contain 7 membrane spanning regions. Characteristics of transmembrane domains include approximately 20 consecutive

hydrophobic amino acids that may be followed by charged amino acids. Therefore, upon analysis of the amino acid sequence of a particular protein, the localization and number of transmembrane domains within the protein may be predicted (see, e.g. PSORT web site http://psort.nibb.ac.jp/).

The extracellular domains of transmembrane proteins are diverse; however, conserved motifs are found repeatedly among various extracellular domains. Conserved structure and/or functions have been ascribed to different extracellular motifs. Many extracellular domains are involved in binding to other molecules. In one aspect, extracellular domains are found on receptors. Factors that bind the receptor domain include circulating ligands, which may be peptides, proteins, or small molecules such as adenosine and the like. For example, growth factors such as EGF, FGF and PDGF are circulating growth factors that bind to their cognate receptors to initiate a variety of cellular responses. Other factors include cytokines, mitogenic factors, hormones, neurotrophic factors and the like. Extracellular domains also bind to cell-associated molecules. In this respect, they mediate cell-cell interactions. Cell-associated ligands can be tethered to the cell, e.g., via a glycosylphosphatidylinositol (GPI) anchor, or may themselves be transmembrane proteins. Extracellular domains also associate with the extracellular matrix and contribute to the maintenance of the cell structure.

Metastatic colorectal cancer proteins that are transmembrane are particularly preferred in the present invention as they are readily accessible targets for extracellular immunotherapeutics, as are described herein. In addition, as outlined below, transmembrane proteins can be also useful in imaging modalities. Antibodies may be used to label such readily accessible proteins *in situ* or in histological analysis. Alternatively, antibodies can also label intracellular proteins, in which case analytical samples are typically permeablized to provide access to intracellular proteins.

It will also be appreciated by those in the art that a transmembrane protein can be made soluble by removing transmembrane sequences, e.g., through recombinant methods. Furthermore, transmembrane proteins that have been made soluble can be made to be secreted through recombinant means by adding an appropriate signal sequence.

In another embodiment, the metastatic colorectal cancer proteins are secreted proteins; the secretion of which can be either constitutive or regulated. These proteins have a signal peptide or signal sequence that targets the molecule to the secretory pathway. Secreted proteins are involved in numerous physiological events; by virtue of their circulating nature, they often serve to transmit signals to various other cell types. The secreted protein may

function in an autocrine manner (acting on the cell that secreted the factor), a paracrine manner (acting on cells in close proximity to the cell that secreted the factor) or an endocrine manner (acting on cells at a distance). Thus secreted molecules find use in modulating or altering numerous aspects of physiology. Metastatic colorectal cancer proteins that are secreted proteins are particularly preferred in the present invention as they serve as good targets for diagnostic markers, e.g., for blood, plasma, serum, or stool tests.

#### Use of metastatic colorectal cancer nucleic acids

As described above, metastatic colorectal cancer sequence is initially identified by substantial nucleic acid and/or amino acid sequence homology or linkage to the metastatic colorectal cancer sequences outlined herein. Such homology can be based upon the overall nucleic acid or amino acid sequence, and is generally determined as outlined below, using either homology programs or hybridization conditions. Typically, linked \_\_\_\_\_\_ sequences on a mRNA are found on the same molecule.

The metastatic colorectal cancer nucleic acid sequences of the invention, e.g., the sequences in Tables 1-26, can be fragments of larger genes, i.e., they are nucleic acid segments. "Genes" in this context includes coding regions, non-coding regions, and mixtures of coding and non-coding regions. Accordingly, as will be appreciated by those in the art, using the sequences provided herein, extended sequences, in either direction, of the metastatic colorectal cancer genes can be obtained, using techniques well known in the art for cloning either longer sequences or the full length sequences; see Ausubel, et al., supra. Much can be done by informatics and many sequences can be clustered to include multiple sequences corresponding to a single gene, e.g., systems such as UniGene (see, http://www.ncbi.nlm.nih.gov/unigene/).

Once the metastatic colorectal cancer nucleic acid is identified, it can be cloned and, if necessary, its constituent parts recombined to form the entire metastatic colorectal cancer nucleic acid coding regions or the entire mRNA sequence. Once isolated from its natural source, e.g., contained within a plasmid or other vector or excised therefrom as a linear nucleic acid segment, the recombinant metastatic colorectal cancer nucleic acid can be further-used as a probe to identify and isolate other metastatic colorectal cancer nucleic acid, e.g., extended coding regions. It can also be used as a "precursor" nucleic acid to make modified or variant metastatic colorectal cancer nucleic acids and proteins.

The metastatic colorectal cancer nucleic acids of the present invention are used in several ways. In a first embodiment, nucleic acid probes to the metastatic colorectal

cancer nucleic acids are made and attached to biochips to be used in screening and diagnostic methods, as outlined below, or for administration, e.g., for gene therapy, vaccine, and/or antisense applications. Alternatively, the metastatic colorectal cancer nucleic acids that include coding regions of metastatic colorectal cancer proteins can be put into expression vectors for the expression of metastatic colorectal cancer proteins, again for screening purposes or for administration to a patient.

In a preferred embodiment, nucleic acid probes to metastatic colorectal cancer nucleic acids (both the nucleic acid sequences outlined in the figures and/or the complements thereof) are made. The nucleic acid probes attached to the biochip are designed to be substantially complementary to the metastatic colorectal cancer nucleic acids, i.e. the target sequence (either the target sequence of the sample or to other probe sequences, e.g., in sandwich assays), such that hybridization of the target sequence and the probes of the present invention occurs. As outlined below, this complementarity need not be perfect; there may be any number of base pair mismatches which will interfere with hybridization between the target sequence and the single stranded nucleic acids of the present invention. However, if the number of mutations is so great that no hybridization can occur under even the least stringent of hybridization conditions, the sequence is not a complementary target sequence. Thus, by "substantially complementary" herein is meant that the probes are sufficiently complementary to the target sequences to hybridize under appropriate reaction conditions, particularly high stringency conditions, as outlined herein.

A nucleic acid probe is generally single stranded but can be partially single and partially double stranded. The strandedness of the probe is dictated by the structure, composition, and properties of the target sequence. In general, the nucleic acid probes range from about 8 to about 100 bases long, with from about 10 to about 80 bases being preferred, and from about 30 to about 50 bases being particularly preferred. That is, generally complements of ORFs or whole genes are not used. In some embodiments, nucleic acids of lengths up to hundreds of bases can be used.

In a preferred embodiment, more than one probe per sequence is used, with either overlapping probes or probes to different sections of the target being used. That is, two, three, four or more probes, with three being preferred, are used to build in a redundancy for a particular target. The probes can be overlapping (i.e., have some sequence in common), or separate. In some cases, PCR primers may be used to amplify signal for higher sensitivity.

.As will be appreciated by those in the art, nucleic acids can be attached or immobilized to a solid support in a wide variety of ways. By "immobilized" and grammatical

equivalents herein is meant the association or binding between the nucleic acid probe and the solid support is sufficient to be stable under the conditions of binding, washing, analysis, and removal as outlined below. The binding can typically be covalent or non-covalent. By "non-covalent binding" and grammatical equivalents herein is typically meant one or more of electrostatic, hydrophilic, and hydrophobic interactions. Included in non-covalent binding is the covalent attachment of a molecule, such as, streptavidin to the support and the non-covalent binding of the biotinylated probe to the streptavidin. By "covalent binding" and grammatical equivalents herein is meant that the two moieties, the solid support and the probe, are attached by at least one bond, including sigma bonds, pi bonds and coordination bonds. Covalent bonds can be formed directly between the probe and the solid support or can be formed by a cross linker or by inclusion of a specific reactive group on either the solid support or the probe or both molecules. Immobilization may also involve a combination of covalent and non-covalent interactions.

In general, the probes are attached to a biochip in a wide variety of ways, as will be appreciated by those in the art. As described herein, the nucleic acids can either be synthesized first, with subsequent attachment to the biochip, or can be directly synthesized on the biochip.

The biochip comprises a suitable solid substrate. By "substrate" or "solid support" or other grammatical equivalents herein is meant a material that can be modified to contain discrete individual sites appropriate for the attachment or association of the nucleic acid probes and is amenable to at least one detection method. As will be appreciated by those in the art, the number of possible substrates are very large, and include, but are not limited to, glass and modified or functionalized glass, plastics (including acrylics, polystyrene and copolymers of styrene and other materials, polypropylene, polyethylene, polybutylene, polyurethanes, Teflon, etc.), polysaccharides, nylon or nitrocellulose, resins, silica or silicabased materials including silicon and modified silicon, carbon, metals, inorganic glasses, plastics, etc. In general, the substrates allow optical detection and do not appreciably fluoresce. A preferred substrate is described in copending application entitled Reusable Low Fluorescent Plastic Biochip, U.S. Application Serial No. 09/270,214, filed March 15, 1999, herein incorporated by reference in its entirety.

Generally the substrate is planar, although as will be appreciated by those in the art, other configurations of substrates may be used as well. For example, the probes may be placed on the inside surface of a tube, for flow-through sample analysis to minimize

sample volume. Similarly, the substrate may be flexible, such as a flexible foam, including closed cell foams made of particular plastics.

In a preferred embodiment, the surface of the biochip and the probe may be derivatized with chemical functional groups for subsequent attachment of the two. Thus, e.g., the biochip is derivatized with a chemical functional group including, but not limited to, amino groups, carboxy groups, oxo groups and thiol groups, with amino groups being particularly preferred. Using these functional groups, the probes can be attached using functional groups on the probes. For example, nucleic acids containing amino groups can be attached to surfaces comprising amino groups, e.g., using linkers as are known in the art; e.g., homo-or hetero-bifunctional linkers as are well known (see 1994 Pierce Chemical Company catalog, technical section on cross-linkers, pages 155-200). In addition, in some cases, additional linkers, such as alkyl groups (including substituted and heteroalkyl groups) may be used.

In this embodiment, oligonucleotides are synthesized as is known in the art, and then attached to the surface of the solid support. As will be appreciated by those skilled in the art, either the 5' or 3' terminus may be attached to the solid support, or attachment may be via an internal nucleoside.

In another embodiment, the immobilization to the solid support may be very strong, yet non-covalent. For example, biotinylated oligonucleotides can be made, which bind to surfaces covalently coated with streptavidin, resulting in attachment.

Alternatively, the oligonucleotides may be synthesized on the surface, as is known in the art. For example, photoactivation techniques utilizing photopolymerization compounds and techniques are used. In a preferred embodiment, the nucleic acids can be synthesized *in situ*, using well known photolithographic techniques, such as those described in WO 95/25116; WO 95/35505; U.S. Patent Nos. 5,700,637 and 5,445,934; and references cited within, all of which are expressly incorporated by reference; these methods of attachment form the basis of the Affimetrix GeneChip<sup>TM</sup> technology.

Often, amplification-based assays are performed to measure the expression level of metastatic colorectal cancer-associated sequences. These assays are typically performed in conjunction with reverse transcription. In such assays, a metastatic colorectal cancer-associated nucleic acid sequence acts as a template in an amplification reaction (e.g., Polymerase Chain Reaction, or PCR). In a quantitative amplification, the amount of amplification product will be proportional to the amount of template in the original sample. Comparison to appropriate controls provides a measure of the amount of metastatic colorectal

cancer-associated RNA. Methods of quantitative amplification are well known to those of skill in the art. Detailed protocols for quantitative PCR are provided, e.g., in Innis et al., PCR Protocols, A Guide to Methods and Applications (1990).

In some embodiments, a TaqMan based assay is used to measure expression. TaqMan based assays use a fluorogenic oligonucleotide probe that contains a 5' fluorescent dye and a 3' quenching agent. The probe hybridizes to a PCR product, but cannot itself be extended due to a blocking agent at the 3' end. When the PCR product is amplified in subsequent cycles, the 5' nuclease activity of the polymerase, e.g., AmpliTaq, results in the cleavage of the TaqMan probe. This cleavage separates the 5' fluorescent dye and the 3' quenching agent, thereby resulting in an increase in fluorescence as a function of amplification (see, e.g., literature provided by Perkin-Elmer, e.g., www2.perkin-elmer.com).

Other suitable amplification methods include, but are not limited to, ligase chain reaction (LCR) (see Wu & Wallace, Genomics 4:560 (1989), Landegren et al., Science 241:1077 (1988), and Barringer et al., Gene 89:117 (1990)), transcription amplification (Kwoh et al., Proc. Natl. Acad. Sci. USA 86:1173 (1989)), self-sustained sequence replication (Guatelli et al., Proc. Nat. Acad. Sci. USA 87:1874 (1990)), dot PCR, and linker adapter PCR, etc.

## Expression of metastatic colorectal cancer proteins from nucleic acids

In a preferred embodiment, metastatic colorectal cancer nucleic acids, e.g., encoding metastatic colorectal cancer proteins, are used to make a variety of expression vectors to express metastatic colorectal cancer proteins which can then be used in screening assays, as described below. Expression vectors and recombinant DNA technology are well known to those of skill in the art (see, e.g., Ausubel, supra, and Gene Expression Systems (Fernandez & Hoeffler, eds, 1999)) and are used to express proteins. The expression vectors may be either self-replicating extrachromosomal vectors or vectors which integrate into a host genome. Generally, these expression vectors include transcriptional and translational regulatory nucleic acid operably linked to the nucleic acid encoding the metastatic colorectal cancer protein. The term "control sequences" refers to DNA sequences used for the expression of an operably linked coding sequence in a particular host organism. Control sequences that are suitable for prokaryotes, e.g., include a promoter, optionally an operator sequence, and a ribosome binding site. Eukaryotic cells are known to utilize promoters, polyadenylation signals, and enhancers.

Nucleic acid is "operably linked" when it is placed into a functional relationship with another nucleic acid sequence. For example, DNA for a presequence or secretory leader is operably linked to DNA for a polypeptide if it is expressed as a preprotein that participates in the secretion of the polypeptide; a promoter or enhancer is operably linked to a coding sequence if it affects the transcription of the sequence; or a ribosome binding site is operably linked to a coding sequence if it is positioned so as to facilitate translation.

Generally, "operably linked" means that the DNA sequences being linked are contiguous, and, in the case of a secretory leader, contiguous and in reading phase. However, enhancers do not have to be contiguous. Linking is typically accomplished by ligation at convenient restriction sites. If such sites do not exist, synthetic oligonucleotide adaptors or linkers are used in accordance with conventional practice. Transcriptional and translational regulatory nucleic acid will generally be appropriate to the host cell used to express the metastatic colorectal cancer protein. Numerous types of appropriate expression vectors, and suitable regulatory sequences are known in the art for a variety of host cells.

In general, transcriptional and translational regulatory sequences may include, but are not limited to, promoter sequences, ribosomal binding sites, transcriptional start and stop sequences, translational start and stop sequences, and enhancer or activator sequences. In a preferred embodiment, the regulatory sequences include a promoter and transcriptional start and stop sequences.

Promoter sequences encode either constitutive or inducible promoters. The promoters may be either naturally occurring promoters or hybrid promoters. Hybrid promoters, which combine elements of more than one promoter, are also known in the art, and are useful in the present invention.

In addition, an expression vector may comprise additional elements. For example, the expression vector may have two replication systems, thus allowing it to be maintained in two organisms, e.g., in mammalian or insect cells for expression and in a procaryotic host for cloning and amplification. Furthermore, for integrating expression vectors, the expression vector contains at least one sequence homologous to the host cell genome, and preferably two homologous sequences which flank the expression construct. The integrating vector may be directed to a specific locus in the host cell by selecting the appropriate homologous sequence for inclusion in the vector. Constructs for integrating vectors are well known in the art (e.g., Fernandez & Hoeffler, *supra*).

In addition, in a preferred embodiment, the expression vector contains a selectable marker gene to allow the selection of transformed host cells. Selection genes are well known in the art and will vary with the host cell used.

The metastatic colorectal cancer proteins of the present invention are produced by culturing a host cell transformed with an expression vector containing nucleic acid encoding a metastatic colorectal cancer protein, under the appropriate conditions to induce or cause expression of the metastatic colorectal cancer protein. Conditions appropriate for metastatic colorectal cancer protein expression will vary with the choice of the expression vector and the host cell, and will be easily ascertained by one skilled in the art through routine experimentation or optimization. For example, the use of constitutive promoters in the expression vector will require optimizing the growth and proliferation of the host cell, while the use of an inducible promoter requires the appropriate growth conditions for induction. In addition, in some embodiments, the timing of the harvest is important. For example, the baculoviral systems used in insect cell expression are lytic viruses, and thus harvest time selection can be crucial for product yield.

Appropriate host cells include yeast, bacteria, archaebacteria, fungi, and insect and animal cells, including mammalian cells. Of particular interest are Saccharomyces cerevisiae and other yeasts, E. coli, Bacillus subtilis, Sf9 cells, C129 cells, 293 cells, Neurospora, BHK, CHO, COS, HeLa cells, HUVEC (human umbilical vein endothelial cells), THP1 cells (a macrophage cell line) and various other human cells and cell lines.

In a preferred embodiment, the metastatic colorectal cancer proteins are expressed in mammalian cells. Mammalian expression systems are also known in the art, and include retroviral and adenoviral systems. Of particular use as mammalian promoters are the promoters from mammalian viral genes, since the viral genes are often highly expressed and have a broad host range. Examples include the SV40 early promoter, mouse mammary tumor virus LTR promoter, adenovirus major late promoter, herpes simplex virus promoter, and the CMV promoter (see, e.g., Fernandez & Hoeffler, supra). Typically, transcription termination and polyadenylation sequences recognized by mammalian cells are regulatory regions located 3' to the translation stop codon and thus, together with the promoter elements, flank the coding sequence. Examples of transcription terminator and polyadenylation signals include those derived form SV40.

The methods of introducing exogenous nucleic acid into mammalian hosts, as well as other hosts, is well known in the art, and will vary with the host cell used.

Techniques include dextran-mediated transfection, calcium phosphate precipitation,

polybrene mediated transfection, protoplast fusion, electroporation, viral infection, encapsulation of the polynucleotide(s) in liposomes, and direct microinjection of the DNA into nuclei.

In a preferred embodiment, metastatic colorectal cancer proteins are expressed in bacterial systems. Promoters from bacteriophage may also be used and are known in the art. In addition, synthetic promoters and hybrid promoters are also useful; e.g., the tac promoter is a hybrid of the trp and lac promoter sequences. Furthermore, a bacterial promoter can include naturally occurring promoters of non-bacterial origin that have the ability to bind bacterial RNA polymerase and initiate transcription. In addition to a functioning promoter sequence, an efficient ribosome binding site is desirable. The expression vector may also include a signal peptide sequence that provides for secretion of the metastatic colorectal cancer protein in bacteria. The protein is either secreted into the growth media (gram-positive bacteria) or into the periplasmic space, located between the inner and outer membrane of the cell (gram-negative bacteria). The bacterial expression vector may also include a selectable marker gene to allow for the selection of bacterial strains that have been transformed. Suitable selection genes include genes which render the bacteria resistant to drugs such as ampicillin, chloramphenicol, erythromycin, kanamycin, neomycin and tetracycline. Selectable markers also include biosynthetic genes, such as those in the histidine, tryptophan and leucine biosynthetic pathways. These components are assembled into expression vectors. Expression vectors for bacteria are well known in the art, and include vectors for Bacillus subtilis, E. coli, Streptococcus cremoris, and Streptococcus lividans, among others (e.g., Fernandez & Hoeffler, supra). The bacterial expression vectors are transformed into bacterial host cells using techniques well known in the art, such as calcium chloride treatment, electroporation, and others.

In one embodiment, metastatic colorectal cancer proteins are produced in insect cells. Expression vectors for the transformation of insect cells, and in particular, baculovirus-based expression vectors, are well known in the art.

In a preferred embodiment, metastatic colorectal cancer protein is produced in yeast cells. Yeast expression systems are well known in the art, and include expression vectors for Saccharomyces cerevisiae, Candida albicans and C. maltosa, Hansenula polymorpha, Kluyveromyces fragilis and K. lactis, Pichia guillerimondii and P. pastoris, Schizosaccharomyces pombe, and Yarrowia lipolytica.

The metastatic colorectal cancer protein may also be made as a fusion protein, using techniques well known in the art. Thus, e.g., for the creation of monoclonal antibodies,

if the desired epitope is small, the metastatic colorectal cancer protein may be fused to a carrier protein to form an immunogen. Alternatively, the metastatic colorectal cancer protein may be made as a fusion protein to increase expression for affinity purification purposes, or for other reasons. For example, when the metastatic colorectal cancer protein is a metastatic colorectal cancer peptide, the nucleic acid encoding the peptide may be linked to other nucleic acid for expression purposes.

In a preferred embodiment, the metastatic colorectal cancer protein is purified or isolated after expression. Metastatic colorectal cancer proteins may be isolated or purified in a variety of appropriate ways. Standard purification methods include electrophoretic, molecular, immunological and chromatographic techniques, including ion exchange, hydrophobic, affinity, and reverse-phase HPLC chromatography, and chromatofocusing. For example, the metastatic colorectal cancer protein may be purified using a standard antimetastatic colorectal cancer protein antibody column. Ultrafiltration and diafiltration — techniques, in conjunction with protein concentration, are also useful. For general guidance in suitable purification techniques, see Scopes, *Protein Purification* (1982). The degree of purification necessary will vary depending on the use of the metastatic colorectal cancer protein. In some instances no purification will be necessary.

Once expressed and purified if necessary, the metastatic colorectal cancer proteins and nucleic acids are useful in a number of applications. They may be used as immunoselection reagents, as vaccine reagents, as screening agents, etc.

#### Variants of metastatic colorectal cancer proteins

In one embodiment, the metastatic colorectal cancer proteins are derivative or variant metastatic colorectal cancer proteins as compared to the wild-type sequence. That is, as outlined more fully below, the derivative metastatic colorectal cancer peptide will oftencontain at least one amino acid substitution, deletion or insertion, with amino acid substitutions being particularly preferred. The amino acid substitution, insertion or deletion may occur at a particular residue within the metastatic colorectal cancer peptide.

Also included within one embodiment of metastatic colorectal cancer proteins of the present invention are amino acid sequence variants. These variants typically fall into one or more of three classes: substitutional, insertional or deletional variants. These variants ordinarily are prepared by site specific mutagenesis of nucleotides in the DNA encoding the metastatic colorectal cancer protein, using cassette or PCR mutagenesis or other techniques, to produce DNA encoding the variant, and thereafter expressing the DNA in recombinant cell

culture as outlined above. However, variant metastatic colorectal cancer protein fragments having up to about 100-150 residues may be prepared by *in vitro* synthesis. Amino acid sequence variants are characterized by the predetermined nature of the variation, a feature that sets them apart from naturally occurring allelic or interspecies variation of the metastatic colorectal cancer protein amino acid sequence. The variants typically exhibit the same qualitative biological activity as the naturally occurring analogue, although variants can also be selected which have modified characteristics as will be more fully outlined below.

While the site or region for introducing an amino acid sequence variation is often predetermined, the mutation per se need not be predetermined. For example, in order to optimize the performance of a mutation at a given site, random mutagenesis may be conducted at the target codon or region and the expressed metastatic colorectal cancer variants screened for the optimal combination of desired activity. Techniques exist for making substitution mutations at predetermined sites in DNA having a known sequence, e.g., M13 primer mutagenesis and PCR mutagenesis. Screening of the mutants is done using assays of metastatic colorectal cancer protein activities.

Amino acid substitutions are typically of single residues; insertions usually will be on the order of from about 1 to 20 amino acids, although considerably larger insertions may be occasionally tolerated. Deletions range from about 1 to about 20 residues, although in some cases deletions may be much larger.

Substitutions, deletions, insertions or any combination thereof may be used to arrive at a final derivative. Generally these changes are done on a few amino acids to minimize the alteration of the molecule. Larger changes may be tolerated in certain circumstances. When small alterations in the characteristics of a metastatic colorectal cancer protein are desired, substitutions are generally made in accordance with the amino acid substitution chart provided in the definition section.

Variants typically exhibit the same qualitative biological activity and will elicit the same immune response as the naturally-occurring analog, although variants also are selected to modify the characteristics of the metastatic colorectal cancer proteins as needed. Alternatively, the variant may be designed or reorganized such that the biological activity of the metastatic colorectal cancer protein is altered. For example, glycosylation sites may be altered or removed.

Covalent modifications of metastatic colorectal cancer polypeptides are included within the scope of this invention. One type of covalent modification includes reacting targeted amino acid residues of a metastatic colorectal cancer polypeptide with an

organic derivatizing agent that is capable of reacting with selected side chains or the N-or C-terminal residues of a metastatic colorectal cancer polypeptide. Derivatization with bifunctional agents is useful, for instance, for crosslinking metastatic colorectal cancer polypeptides to a water-insoluble support matrix or surface for use in the method for purifying anti-metastatic colorectal cancer polypeptide antibodies or screening assays, as is more fully described below. Commonly used crosslinking agents include, e.g., 1,1-bis(diazoacetyl)-2-phenylethane, glutaraldehyde, N-hydroxysuccinimide esters, e.g., esters with 4-azidosalicylic acid, homobifunctional imidoesters, including disuccinimidyl esters such as 3,3'-dithiobis(succinimidylpropionate), bifunctional maleimides such as bis-N-maleimido-1,8-octane and agents such as methyl-3-((p-azidophenyl)dithio)propioimidate.

Other modifications include deamidation of glutaminyl and asparaginyl residues to the corresponding glutamyl and aspartyl residues, respectively, hydroxylation of proline and lysine, phosphorylation of hydroxyl groups of seryl, threonyl or tyrosyl residues, methylation of the  $\gamma$ -amino groups of lysine, arginine, and histidine side chains (Creighton, *Proteins: Structure and Molecular Properties*, pp. 79-86 (1983)), acetylation of the N-terminal amine, and amidation of any C-terminal carboxyl group.

Another type of covalent modification of the metastatic colorectal cancer polypeptide encompassed by this invention is an altered native glycosylation pattern of the polypeptide. "Altering the native glycosylation pattern" is intended herein to mean adding to or deleting one or more carbohydrate moieties of a native sequence metastatic colorectal cancer polypeptide. Glycosylation patterns can be altered in many ways. For example the use of different cell types to express metastatic colorectal cancer-associated sequences can result in different glycosylation patterns.

Addition of glycosylation sites to metastatic colorectal cancer polypeptides may also be accomplished by altering the amino acid sequence thereof. The alteration may be made, e.g., by the addition of, or substitution by, one or more serine or threonine residues to the native sequence metastatic colorectal cancer polypeptide (for O-linked glycosylation sites). The metastatic colorectal cancer amino acid sequence may optionally be altered through changes at the DNA level, particularly by mutating the DNA encoding the metastatic colorectal cancer polypeptide at preselected bases such that codons are generated that will translate into the desired amino acids.

Another means of increasing the number of carbohydrate moieties on the metastatic colorectal cancer polypeptide is by chemical or enzymatic coupling of glycosides

to the polypeptide. Such methods are described in the art, e.g., in WO 87/05330, and in Aplin & Wriston, CRC Crit. Rev. Biochem., pp. 259-306 (1981).

Removal of carbohydrate moieties present on the metastatic colorectal cancer polypeptide may be accomplished chemically or enzymatically or by mutational substitution of codons encoding for amino acid residues that serve as targets for glycosylation. Chemical deglycosylation techniques are known in the art and described, for instance, by Hakimuddin, et al., Arch. Biochem. Biophys., 259:52 (1987) and by Edge et al., Anal. Biochem., 118:131 (1981). Enzymatic cleavage of carbohydrate moieties on polypeptides can be achieved by the use of a variety of endo-and exo-glycosidases as described by Thotakura et al., Meth. Enzymol., 138:350 (1987).

Another type of covalent modification of metastatic colorectal cancer comprises linking the metastatic colorectal cancer polypeptide to one of a variety of nonproteinaceous polymers, e.g., polyethylene glycol, polypropylene glycol, or polyoxyalkylenes, in the manner set forth in U.S. Patent Nos. 4,640,835; 4,496,689; 4,301,144; 4,670,417; 4,791,192 or 4,179,337.

Metastatic colorectal cancer polypeptides of the present invention may also be modified in a way to form chimeric molecules comprising a metastatic colorectal cancer polypeptide fused to another, heterologous polypeptide or amino acid sequence. In one embodiment, such a chimeric molecule comprises a fusion of a metastatic colorectal cancer polypeptide with a tag polypeptide which provides an epitope to which an anti-tag antibody can selectively bind. The epitope tag is generally placed at the amino-or carboxyl-terminus of the metastatic colorectal cancer polypeptide. The presence of such epitope-tagged forms of a metastatic colorectal cancer polypeptide can be detected using an antibody against the tag polypeptide. Also, provision of the epitope tag enables the metastatic colorectal cancer polypeptide to be readily purified by affinity purification using an anti-tag antibody or another type of affinity matrix that binds to the epitope tag. In an alternative embodiment, the chimeric molecule may comprise a fusion of a metastatic colorectal cancer polypeptide with an immunoglobulin or a particular region of an immunoglobulin. For a bivalent form of the chimeric molecule, such a fusion could be to the Fc region of an IgG molecule.

Various tag polypeptides and their respective antibodies are well known and examples include poly-histidine (poly-his) or poly-histidine-glycine (poly-his-gly) tags; HIS6 and metal chelation tags, the flu HA tag polypeptide and its antibody 12CA5 (Field *et al.*, *Mol. Cell. Biol.* 8:2159-2165 (1988)); the c-myc tag and the 8F9, 3C7, 6E10, G4, B7 and 9E10 antibodies thereto (Evan *et al.*, *Molecular and Cellular Biology* 5:3610-3616 (1985));

and the Herpes Simplex virus glycoprotein D (gD) tag and its antibody (Paborsky et al., Protein Engineering 3(6):547-553 (1990)). Other tag polypeptides include the Flag-peptide (Hopp et al., BioTechnology 6:1204-1210 (1988)); the KT3 epitope peptide (Martin et al., Science 255:192-194 (1992)); tubulin epitope peptide (Skinner et al., J. Biol. Chem. 266:15163-15166 (1991)); and the T7 gene 10 protein peptide tag (Lutz-Freyermuth et al., Proc. Natl. Acad. Sci. USA 87:6393-6397 (1990)).

Also included are other metastatic colorectal cancer proteins of the metastatic colorectal cancer family, and metastatic colorectal cancer proteins from other organisms, which are cloned and expressed as outlined below. Thus, probe or degenerate polymerase chain reaction (PCR) primer sequences may be used to find other related metastatic colorectal cancer proteins from primates or other organisms. As will be appreciated by those in the art, particularly useful probe and/or PCR primer sequences include unique areas of the metastatic colorectal cancer nucleic acid sequence. As is generally known in the art, preferred PCR — primers are from about 15 to about 35 nucleotides in length, with from about 20 to about 30 being preferred, and may contain inosine as needed. PCR reaction conditions are well known in the art (e.g., Innis, PCR Protocols, *supra*).

#### Antibodies to metastatic colorectal cancer proteins

In a preferred embodiment, when a metastatic colorectal cancer protein is to be used to generate antibodies, e.g., for immunotherapy or immunodiagnosis, the metastatic colorectal cancer protein should share at least one epitope or determinant with the full length protein. By "epitope" or "determinant" herein is typically meant a portion of a protein which will generate and/or bind an antibody or T-cell receptor in the context of MHC. Thus, in most instances, antibodies made to a smaller metastatic colorectal cancer protein will be able to bind to the full-length protein, particularly linear epitopes. In a preferred embodiment, the epitope is unique; that is, antibodies generated to a unique epitope show little or no cross-reactivity.

Methods of preparing polyclonal antibodies are well known (e.g., Coligan, supra; and Harlow & Lane, supra). Polyclonal antibodies can be raised in a mammal, e.g., by one or more injections of an immunizing agent and, if desired, an adjuvant. Typically, the immunizing agent and/or adjuvant will be injected in the mammal by multiple subcutaneous or intraperitoneal injections. The immunizing agent may include a protein encoded by a nucleic acid of Tables 1-26 or fragment thereof or a fusion protein thereof. It may be useful to conjugate the immunizing agent to a protein known to be immunogenic in the mammal

being immunized. Immunogenic proteins include, e.g., keyhole limpet hemocyanin, serum albumin, bovine thyroglobulin, and soybean trypsin inhibitor. Adjuvants include, e.g., Freund's complete adjuvant and MPL-TDM adjuvant (monophosphoryl Lipid A, synthetic trehalose dicorynomycolate). The immunization protocol may be selected by one skilled in the art.

The antibodies may, alternatively, be monoclonal antibodies. Monoclonal antibodies may be prepared using hybridoma methods, such as those described by Kohler & Milstein, Nature 256:495 (1975). In a hybridoma method, a mouse, hamster, or other appropriate host animal, is typically immunized with an immunizing agent to elicit lymphocytes that produce or are capable of producing antibodies that will specifically bind to the immunizing agent. Alternatively, the lymphocytes may be immunized in vitro. The immunizing agent will typically include a polypeptide encoded by a nucleic acid of Tables 1-26, or fragment thereof, or a fusion protein thereof. Generally, either peripheral blood lymphocytes ("PBLs") are used if cells of human origin are desired, or spleen cells or lymph node cells are used if non-human mammalian sources are desired. The lymphocytes are then fused with an immortalized cell line using a suitable fusing agent, such as polyethylene glycol, to form a hybridoma cell (Goding, Monoclonal Antibodies: Principles and Practice, pp. 59-103 (1986)). Immortalized cell lines are usually transformed mammalian cells, particularly myeloma cells of rodent, bovine and primate origin. Usually, rat or mouse myeloma cell lines are employed. The hybridoma cells may be cultured in a suitable culture medium that preferably contains one or more substances that inhibit the growth or survival of the unfused, immortalized cells. For example, if the parental cells lack the enzyme hypoxanthine guanine phosphoribosyl transferase (HGPRT or HPRT), the culture medium for the hybridomas typically will include hypoxanthine, aminopterin, and thymidine ("HAT medium"), which substances prevent the growth of HGPRT-deficient cells.

In one embodiment, the antibodies are bispecific antibodies. Bispecific antibodies are typically monoclonal, preferably human or humanized, antibodies that have binding specificities for at least two different antigens or that have binding specificities for two epitopes on the same antigen. In one embodiment, one of the binding specificities is for a protein encoded by a nucleic acid of Tables 1-26 or a fragment thereof, the other one is for any other antigen, and preferably for a cell-surface protein or receptor or receptor subunit, preferably one that is tumor specific. Alternatively, tetramer-type technology may create multivalent reagents.

In a preferred embodiment, the antibodies to metastatic colorectal cancer protein are capable of reducing or eliminating a biological function of a metastatic colorectal cancer protein, as is described below. That is, the addition of anti-metastatic colorectal cancer protein antibodies (either polyclonal or preferably monoclonal) to metastatic colorectal cancer tissue (or cells containing metastatic colorectal cancer) may reduce or eliminate the metastatic colorectal cancer. Generally, at least a 25% decrease in activity, growth, size or the like is preferred, with at least about 50% being particularly preferred and about a 95-100% decrease being especially preferred.

In a preferred embodiment the antibodies to the metastatic colorectal cancer proteins are humanized antibodies (e.g., Xenerex Biosciences, Mederex, Inc., Abgenix, Inc., Protein Design Labs, Inc.) Humanized forms of non-human (e.g., murine) antibodies are chimeric molecules of immunoglobulins, immunoglobulin chains or fragments thereof (such as Fv, Fab, Fab', F(ab')2 or other antigen-binding subsequences of antibodies) which contain minimal sequence derived from non-human immunoglobulin. Humanized antibodies include human immunoglobulins (recipient antibody) in which residues from a complementary determining region (CDR) of the recipient are replaced by residues from a CDR of a nonhuman species (donor antibody) such as mouse, rat or rabbit having the desired specificity. affinity and capacity. In some instances, Fv framework residues of the human immunoglobulin are replaced by corresponding non-human residues. Humanized antibodies may also comprise residues which are found neither in the recipient antibody nor in the imported CDR or framework sequences. In general, a humanized antibody will comprise substantially all of at least one, and typically two, variable domains, in which all or substantially all of the CDR regions correspond to those of a non-human immunoglobulin and all or substantially all of the framework (FR) regions are those of a human immunoglobulin consensus sequence. The humanized antibody optimally also will comprise at least a portion of an immunoglobulin constant region (Fc), typically that of a human immunoglobulin (Jones et al., Nature 321:522-525 (1986); Riechmann et al., Nature 332:323-329 (1988); and Presta, Curr. Op. Struct. Biol. 2:593-596 (1992)). Humanization can be essentially performed following the method of Winter and co-workers (Jones et al., Nature 321:522-525 (1986); Riechmann et al., Nature 332:323-327 (1988); Verhoeyen et al., Science 239:1534-1536 (1988)), by substituting rodent CDRs or CDR sequences for the corresponding sequences of a human antibody. Accordingly, such humanized antibodies are chimeric antibodies (U.S. Patent No. 4,816,567), wherein substantially less than an intact

human variable domain has been substituted by the corresponding sequence from a non-human species.

Human-like antibodies can also be produced using various techniques known in the art, including phage display libraries (Hoogenboom & Winter, J. Mol. Biol. 227:381 (1991); Marks et al., J. Mol. Biol. 222:581 (1991)). The techniques of Cole et al. and Boerner et al. are also available for the preparation of human monoclonal antibodies (Cole et al., Monoclonal Antibodies and Cancer Therapy, p. 77 (1985) and Boerner et al., J. Immunol. 147(1):86-95 (1991)). Similarly, human antibodies can be made by introducing of human immunoglobulin loci into transgenic animals, e.g., mice in which the endogenous immunoglobulin genes have been partially or completely inactivated. Upon challenge, human antibody production is observed, which closely resembles that seen in humans in virtually all respects, including gene rearrangement, assembly, and antibody repertoire. This approach is described, e.g., in U.S. Patent Nos. 5,545,807; 5,545,806; 5,569,825; 5,625,126; 5,633,425; 5,661,016, and in the following scientific publications: Marks et al., Bio/Technology 10:779-783 (1992); Lonberg et al., Nature 368:856-859 (1994); Morrison, Nature 368:812-13 (1994); Fishwild et al., Nature Biotechnology 14:845-51 (1996); Neuberger, Nature Biotechnology 14:826 (1996); Lonberg & Huszar, Intern. Rev. Immunol. 13:65-93 (1995).

By immunotherapy is meant treatment of metastatic colorectal cancer with an antibody raised against a metastatic colorectal cancer proteins. As used herein, immunotherapy can be passive or active. Passive immunotherapy as defined herein is the passive transfer of antibody to a recipient (patient). Active immunization is the induction of antibody and/or T-cell responses in a recipient (patient). Induction of an immune response is the result of providing the recipient with an antigen to which antibodies are raised. The antigen may be provided by injecting a polypeptide against which antibodies are desired to be raised into a recipient, or contacting the recipient with a nucleic acid capable of expressing the antigen and under conditions for expression of the antigen, leading to an immune response.

In a preferred embodiment the metastatic colorectal cancer proteins against which antibodies are raised are secreted proteins as described above. Without being bound by theory, antibodies used for treatment, bind and prevent the secreted protein from binding to its receptor, thereby inactivating the secreted metastatic colorectal cancer protein.

In another preferred embodiment, the metastatic colorectal cancer protein to which antibodies are raised is a transmembrane protein. Without being bound by theory,

antibodies used for this treatment typically bind the extracellular domain of the metastatic colorectal cancer protein and prevent it from binding to other proteins, such as circulating ligands or cell-associated molecules. The antibody may cause down-regulation of the transmembrane metastatic colorectal cancer protein. The antibody may be a competitive, non-competitive or uncompetitive inhibitor of protein binding to the extracellular domain of the metastatic colorectal cancer protein. The antibody may be an antagonist of the metastatic colorectal cancer protein or may prevent activation of the transmembrane metastatic colorectal cancer protein. In some embodiments, when the antibody prevents the binding of other molecules to the metastatic colorectal cancer protein, the antibody prevents growth of the cell. The antibody may also be used to target or sensitize the cell to cytotoxic agents, including, but not limited to TNF-α, TNF-β, IL-1, INF-y and IL-2, or chemotherapeutic agents including 5FU, vinblastine, actinomycin D, cisplatin, methotrexate, and the like. In some instances the antibody belongs to a sub-type that activates serum complement when complexed with the transmembrane protein thereby mediating cytotoxicity or antigendependent cytotoxicity (ADCC). Thus, metastatic colorectal cancer is treated by administering to a patient antibodies directed against the transmembrane metastatic colorectal cancer protein. Antibody-labeling may activate a co-toxin, localize a toxin payload, or otherwise provide means to locally ablate cells.

In another preferred embodiment, the antibody is conjugated to an effector moiety. The effector moiety can be any number of molecules, including labeling moieties such as radioactive labels or fluorescent labels, or can be a therapeutic moiety. In one aspect the therapeutic moiety is a small molecule that modulates the activity of the metastatic colorectal cancer protein. In another aspect the therapeutic moiety modulates the activity of molecules associated with or in close proximity to the metastatic colorectal cancer protein. The therapeutic moiety may inhibit enzymatic activity such as protease or collagenase activity associated with metastatic colorectal cancer.

In a preferred embodiment, the therapeutic moiety can also be a cytotoxic agent. In this method, targeting the cytotoxic agent to metastatic colorectal cancer tissue or cells results in a reduction in the number of afflicted cells, thereby reducing symptoms associated with metastatic colorectal cancer. Cytotoxic agents are numerous and varied and include, but are not limited to, cytotoxic drugs or toxins or active fragments of such toxins. Suitable toxins and their corresponding fragments include diphtheria A chain, exotoxin A chain, ricin A chain, abrin A chain, curcin, crotin, phenomycin, enomycin and the like.

Cytotoxic agents also include radiochemicals made by conjugating radioisotopes to antibodies raised against metastatic colorectal cancer proteins, or binding of a radionuclide to a chelating agent that has been covalently attached to the antibody. Targeting the therapeutic moiety to transmembrane metastatic colorectal cancer proteins not only serves to increase the local concentration of therapeutic moiety in the metastatic colorectal cancer afflicted area, but also serves to reduce deleterious side effects that may be associated with the therapeutic moiety.

In another preferred embodiment, the metastatic colorectal cancer protein against which the antibodies are raised is an intracellular protein. In this case, the antibody may be conjugated to a protein or other entity which facilitates entry into the cell. In one case, the antibody enters the cell by endocytosis. In another embodiment, a nucleic acid encoding the antibody is administered to the individual or cell. Moreover, wherein the metastatic colorectal cancer protein can be targeted within a cell, i.e., the nucleus, an antibody thereto contains a signal for that target localization, i.e., a nuclear localization signal.

The metastatic colorectal cancer antibodies of the invention specifically bind to metastatic colorectal cancer proteins. By "specifically bind" herein is meant that the antibodies bind to the protein with a  $K_d$  of at least about 0.1 mM, more usually at least about 1  $\mu$ M, preferably at least about 0.1  $\mu$ M or better, and most preferably, 0.01  $\mu$ M or better. Selectivity of binding is also important.

# Detection of metastatic colorectal cancer sequence for diagnostic and therapeutic applications

In one aspect, the RNA expression levels of genes are determined for different cellular states in the metastatic colorectal cancer phenotype. Expression levels of genes innormal tissue (i.e., not undergoing metastatic colorectal cancer) and in metastatic colorectal cancer tissue (and in some cases, for varying severities of metastatic colorectal cancer that relate to prognosis, as outlined below) are evaluated to provide expression profiles. An expression profile of a particular cell state or point of development is essentially a "fingerprint" of the state. While two states may have any particular gene similarly expressed, the evaluation of a number of genes simultaneously allows the generation of a gene expression profile that is reflective of the state of the cell. By comparing expression profiles of cells in different states, information regarding which genes are important (including both up- and down-regulation of genes) in each of these states is obtained. Then, diagnosis may

be performed or confirmed to determine whether a tissue sample has the gene expression profile of normal or cancerous tissue. This will provide for molecular diagnosis of related conditions.

"Differential expression," or grammatical equivalents as used herein, refers to qualitative or quantitative differences in the temporal and/or cellular gene expression patterns within and among cells and tissue. Thus, a differentially expressed gene can qualitatively have its expression altered, including an activation or inactivation, in, e.g., normal versus metastatic colorectal cancer tissue. Genes may be turned on or turned off in a particular state, relative to another state thus permitting comparison of two or more states. A qualitatively regulated gene will exhibit an expression pattern within a state or cell type which is detectable by standard techniques. Some genes will be expressed in one state or cell type, but not in both. Alternatively, the difference in expression may be quantitative, e.g., in that expression is increased or decreased; i.e., gene expression is either upregulated, resulting in an increased amount of transcript, or downregulated, resulting in a decreased amount of transcript. The degree to which expression differs need only be large enough to quantify via standard characterization techniques as outlined below, such as by use of Affymetrix GeneChip™ expression arrays, Lockhart, Nature Biotechnology 14:1675-1680 (1996), hereby expressly incorporated by reference. Other techniques include, but are not limited to. quantitative reverse transcriptase PCR, northern analysis and RNase protection. As outlined above, preferably the change in expression (i.e., upregulation or downregulation) is typically at least about 50%, more preferably at least about 100%, more preferably at least about 150%, more preferably at least about 200%, with from 300 to at least 1000% being especially preferred.

Evaluation may be at the gene transcript, or the protein level. The amount of gene expression may be monitored using nucleic acid probes to the DNA or RNA equivalent of the gene transcript, and the quantification of gene expression levels, or, alternatively, the final gene product itself (protein) can be monitored, e.g., with antibodies to the metastatic colorectal cancer protein and standard immunoassays (ELISAs, etc.) or other techniques, including mass spectroscopy assays, 2D gel electrophoresis assays, etc. Proteins corresponding to metastatic colorectal cancer genes, i.e., those identified as being important in a metastatic colorectal cancer phenotype, can be evaluated in a metastatic colorectal cancer diagnostic test.

In a preferred embodiment, gene expression monitoring is performed simultaneously on a number of genes.

The metastatic colorectal cancer nucleic acid probes may be attached to biochips as outlined herein for the detection and quantification of metastatic colorectal cancer sequences in a particular cell. The assays are further described below in the example. PCR techniques can be used to provide greater sensitivity. Multiple protein expression monitoring can be performed as well. Similarly, these assays may be performed on an individual basis as well.

In a preferred embodiment nucleic acids encoding the metastatic colorectal cancer protein are detected. Although DNA or RNA encoding the metastatic colorectal cancer protein may be detected, of particular interest are methods wherein an mRNA encoding a metastatic colorectal cancer protein is detected. Probes to detect mRNA can be a nucleotide/deoxynucleotide probe that is complementary to and hybridizes with the mRNA and includes, but is not limited to, oligonucleotides, cDNA or RNA. Probes also should contain a detectable label, as defined herein. In one method the mRNA is detected after immobilizing the nucleic acid to be examined on a solid support such as nylon membranes and hybridizing the probe with the sample. Following washing to remove the nonspecifically bound probe, the label is detected. In another method detection of the mRNA is performed in situ. In this method permeabilized cells or tissue samples are contacted with a detectably labeled nucleic acid probe for sufficient time to allow the probe to hybridize with the target mRNA. Following washing to remove the non-specifically bound probe, the label is detected. For example a digoxygenin labeled riboprobe (RNA probe) that is complementary to the mRNA encoding a metastatic colorectal cancer protein is detected by binding the digoxygenin with an anti-digoxygenin secondary antibody and developed with nitro blue tetrazolium and 5-bromo-4-chloro-3-indoyl phosphate.

In a preferred embodiment, various proteins from the three classes of proteins as described herein (secreted, transmembrane or intracellular proteins) are used in diagnostic assays. The metastatic colorectal cancer proteins, antibodies, nucleic acids, modified proteins and cells containing metastatic colorectal cancer sequences are used in diagnostic assays. This can be performed on an individual gene or corresponding polypeptide level. In a preferred embodiment, the expression profiles are used, preferably in conjunction with high throughput screening techniques to allow monitoring for expression profile genes and/or corresponding polypeptides.

As described and defined herein, metastatic colorectal cancer proteins, including intracellular, transmembrane or secreted proteins, find use as markers of metastatic colorectal cancer. Detection of these proteins in putative metastatic colorectal cancer tissue

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allows for detection or diagnosis of metastatic colorectal cancer. In one embodiment, antibodies are used to detect metastatic colorectal cancer proteins. A preferred method separates proteins from a sample by electrophoresis on a gel (typically a denaturing and reducing protein gel, but may be another type of gel, including isoelectric focusing gels and the like). Following separation of proteins, the metastatic colorectal cancer protein is detected, e.g., by immunoblotting with antibodies raised against the metastatic colorectal cancer protein. Methods of immunoblotting are well known to those of ordinary skill in the art.

In another preferred method, antibodies to the metastatic colorectal cancer protein find use in *in situ* imaging techniques, e.g., in histology (e.g., *Methods in Cell Biology: Antibodies in Cell Biology*, volume 37 (Asai, ed. 1993)). In this method cells are contacted with from one to many antibodies to the metastatic colorectal cancer protein(s). Following washing to remove non-specific antibody binding, the presence of the antibody or antibodies is detected. In one embodiment the antibody is detected by incubating with a secondary antibody that contains a detectable label, e.g., multicolor fluorescence or confocal imaging. In another method the primary antibody to the metastatic colorectal cancer protein(s) contains a detectable label, e.g., an enzyme marker that can act on a substrate. In another preferred embodiment each one of multiple primary antibodies contains a distinct and detectable label. This method finds particular use in simultaneous screening for a plurality of metastatic colorectal cancer proteins. Many other histological imaging techniques are also provided by the invention.

In a preferred embodiment the label is detected in a fluorometer which has the ability to detect and distinguish emissions of different wavelengths. In addition, a fluorescence activated cell sorter (FACS) can be used in the method.

In another preferred embodiment, antibodies find use in diagnosing metastatic colorectal cancer from blood, serum, plasma, stool, and other samples. Such samples, therefore, are useful as samples to be probed or tested for the presence of metastatic colorectal cancer proteins. Antibodies can be used to detect a metastatic colorectal cancer protein by previously described immunoassay techniques including ELISA, immunoblotting (western blotting), immunoprecipitation, BIACORE technology and the like. Conversely, the presence of antibodies may indicate an immune response against an endogenous metastatic colorectal cancer protein or vaccine.

In a preferred embodiment, in situ hybridization of labeled metastatic colorectal cancer nucleic acid probes to tissue arrays is done. For example, arrays of tissue

samples, including metastatic colorectal cancer tissue and/or normal tissue, are made. In situ hybridization (see, e.g., Ausubel, supra) is then performed. When comparing the fingerprints between an individual and a standard, the skilled artisan can make a diagnosis, a prognosis, or a prediction based on the findings. It is further understood that the genes which indicate the diagnosis may differ from those which indicate the prognosis and molecular profiling of the condition of the cells may lead to distinctions between responsive or refractory conditions or may be predictive of outcomes.

In a preferred embodiment, the metastatic colorectal cancer proteins, antibodies, nucleic acids, modified proteins and cells containing metastatic colorectal cancer sequences are used in prognosis assays. As above, gene expression profiles can be generated that correlate to metastatic colorectal cancer, in terms of long term prognosis. Again, this may be done on either a protein or gene level, with the use of genes being preferred. As above, metastatic colorectal cancer probes may be attached to biochips for the detection and quantification of metastatic colorectal cancer sequences in a tissue or patient. The assays proceed as outlined above for diagnosis. PCR method may provide more sensitive and accurate quantification.

# Assays for therapeutic compounds

In a preferred embodiment members of the three classes of proteins as described herein are used in drug screening assays. The metastatic colorectal cancer proteins, antibodies, nucleic acids, modified proteins and cells containing metastatic colorectal cancer sequences are used in drug screening assays or by evaluating the effect of drug candidates on a "gene expression profile" or expression profile of polypeptides. In a preferred embodiment, the expression profiles are used, preferably in conjunction with high throughput screening techniques to allow monitoring for expression profile genes after treatment with a candidate agent (e.g., Zlokarnik, et al., Science 279:84-8 (1998); Heid, Genome Res 6:986-94, 1996).

In a preferred embodiment, the metastatic colorectal cancer proteins, antibodies, nucleic acids, modified proteins and cells containing the native or modified metastatic colorectal cancer proteins are used in screening assays. That is, the present invention provides novel methods for screening for compositions which modulate the metastatic colorectal cancer phenotype or an identified physiological function of a metastatic colorectal cancer protein. As above, this can be done on an individual gene level or by evaluating the effect of drug candidates on a "gene expression profile". In a preferred embodiment, the expression profiles are used, preferably in conjunction with high throughput

screening techniques to allow monitoring for expression profile genes after treatment with a candidate agent, see Zlokarnik, supra.

Having identified the differentially expressed genes herein, a variety of assays may be applied. In a preferred embodiment, assays may be run on an individual gene or protein level. That is, having identified a particular gene with altered regulation in metastatic colorectal cancer, test compounds can be screened for the ability to modulate gene expression or for binding to the metastatic colorectal cancer protein. "Modulation" thus includes an increase or a decrease in gene expression. The preferred amount of modulation will depend on the original change of the gene expression in normal versus tissue undergoing metastatic colorectal cancer, with changes of at least 10%, preferably 50%, more preferably 100-300%, and in some embodiments 300-1000% or greater. Thus, if a gene exhibits a 4-fold increase in metastatic colorectal cancer tissue compared to normal tissue, a decrease of about four-fold is often desired; similarly, a 10-fold decrease in metastatic colorectal cancer tissue compared to normal tissue often provides a target value of a 10-fold increase in expression to be induced by the test compound.

The amount of gene expression may be monitored using nucleic acid probes and the quantification of gene expression levels, or, alternatively, the gene product itself can be monitored, e.g., through the use of antibodies to the metastatic colorectal cancer protein and standard immunoassays. Proteomics and separation techniques may also allow quantification of expression.

In a preferred embodiment, gene or protein expression monitoring of a number of entities, i.e., an expression profile, is monitored simultaneously. Such profiles will typically involve a plurality of those entities described herein.

In this embodiment, the metastatic colorectal cancer nucleic acid probes are attached to biochips as outlined herein for the detection and quantification of metastatic colorectal cancer sequences in a particular cell. Alternatively, PCR may be used. Thus, a series, e.g., of microtiter plate, may be used with dispensed primers in desired wells. A PCR reaction can then be performed and analyzed for each well.

Expression monitoring can be performed to identify compounds that modify the expression of one or more metastatic colorectal cancer-associated sequences, e.g., a polynucleotide sequence set out in Tables 1-26. Generally, in a preferred embodiment, a test compound is added to the cells prior to analysis. Moreover, screens are also provided to identify agents that modulate metastatic colorectal cancer, modulate metastatic colorectal

cancer proteins, bind to a metastatic colorectal cancer protein, or interfere with the binding of a metastatic colorectal cancer protein and an antibody, substrate, or other binding partner.

The term "test compound" or "drug candidate" or "modulator" or grammatical equivalents as used herein describes any molecule, e.g., protein, oligopeptide, small organic molecule, polysaccharide, polynucleotide, etc., to be tested for the capacity to directly or indirectly alter the metastatic colorectal cancer phenotype or the expression of a metastatic colorectal cancer sequence, e.g., a nucleic acid or protein sequence. In preferred embodiments, modulators alter expression profiles of nucleic acids or proteins provided herein. In one embodiment, the modulator suppresses a metastatic colorectal cancer phenotype, e.g., to a normal tissue fingerprint. In another embodiment, a modulator induces a metastatic colorectal cancer phenotype. Generally, a plurality of assay mixtures are run in parallel with different agent concentrations to obtain a differential response to the various concentrations. Typically, one of these concentrations serves as a negative control, i.e., at zero concentration or below the level of detection.

In one aspect, a modulator will neutralize the effect of a metastatic colorectal cancer protein. By "neutralize" is meant that activity of a protein and the consequent effect on the cell is inhibited or blocked.

In certain embodiments, combinatorial libraries of potential modulators will be screened for an ability to bind to a metastatic colorectal cancer polypeptide or to modulate activity. Conventionally, new chemical entities with useful properties are generated by identifying a chemical compound (called a "lead compound") with some desirable property or activity, e.g., inhibiting activity, creating variants of the lead compound, and evaluating the property and activity of those variant compounds. Often, high throughput screening (HTS) methods are employed for such an analysis.

In one preferred embodiment, high throughput screening methods involve providing a library containing a large number of potential therapeutic compounds (candidate compounds). Such "combinatorial chemical libraries" are then screened in one or more assays to identify those library members (particular chemical species or subclasses) that display a desired characteristic activity. The compounds thus identified can serve as conventional "lead compounds" or can themselves be used as potential or actual therapeutics.

A combinatorial chemical library is a collection of diverse chemical compounds generated by either chemical synthesis or biological synthesis by combining a number of chemical "building blocks" such as reagents. For example, a linear combinatorial chemical library, such as a polypeptide (e.g., mutein) library, is formed by combining a set of

chemical building blocks called amino acids in every possible way for a given compound length (i.e., the number of amino acids in a polypeptide compound). Millions of chemical compounds can be synthesized through such combinatorial mixing of chemical building blocks (Gallop et al., J. Med. Chem. 37(9):1233-1251 (1994)).

Preparation and screening of combinatorial chemical libraries is well known to those of skill in the art. Such combinatorial chemical libraries include, but are not limited to, peptide libraries (see, e.g., U.S. Patent No. 5,010,175, Furka, Pept. Prot. Res. 37:487-493 (1991), Houghton et al., Nature, 354:84-88 (1991)), peptoids (PCT Publication No WO 91/19735), encoded peptides (PCT Publication WO 93/20242), random bio-oligomers (PCT Publication WO 92/00091), benzodiazepines (U.S. Pat. No. 5,288,514), diversomers such as hydantoins, benzodiazepines and dipeptides (Hobbs et al., Proc. Nat. Acad. Sci. USA 90:6909-6913 (1993)), vinylogous polypeptides (Hagihara et al., J. Amer. Chem. Soc. 114:6568 (1992)), nonpeptidal peptidomimetics with a Beta-D-Glucose scaffolding (Hirschmann et al., J. Amer. Chem. Soc. 114:9217-9218 (1992)), analogous organic syntheses of small compound libraries (Chen et al., J. Amer. Chem. Soc. 116:2661 (1994)). oligocarbamates (Cho, et al., Science 261:1303 (1993)), and/or peptidyl phosphonates (Campbell et al., J. Org. Chem. 59:658 (1994)). See, generally, Gordon et al., J. Med. Chem. 37:1385 (1994), nucleic acid libraries (see, e.g., Strategene, Corp.), peptide nucleic acid libraries (see, e.g., U.S. Patent 5,539,083), antibody libraries (see, e.g., Vaughn et al., Nature Biotechnology 14(3):309-314 (1996), and PCT/US96/10287), carbohydrate libraries (see, e.g., Liang et al., Science 274:1520-1522 (1996), and U.S. Patent No. 5,593,853), and small organic molecule libraries (see, e.g., benzodiazepines, Baum, C&EN, Jan 18, page 33 (1993); isoprenoids, U.S. Patent No. 5,569,588; thiazolidinones and metathiazanones, U.S. Patent No. 5,549,974; pyrrolidines, U.S. Patent Nos. 5,525,735 and 5,519,134; morpholino compounds, U.S. Patent No. 5,506,337; benzodiazepines, U.S. Patent No. 5,288,514; and the like).

Devices for the preparation of combinatorial libraries are commercially available (see, e.g., 357 MPS, 390 MPS, Advanced Chem Tech, Louisville KY, Symphony, Rainin, Woburn, MA, 433A Applied Biosystems, Foster City, CA, 9050 Plus, Millipore, Bedford, MA).

A number of well known robotic systems have also been developed for solution phase chemistries. These systems include automated workstations like the automated synthesis apparatus developed by Takeda Chemical Industries, LTD. (Osaka, Japan) and many robotic systems utilizing robotic arms (Zymate II, Zymark Corporation, Hopkinton, Mass.; Orca, Hewlett-Packard, Palo Alto, Calif.), which mimic the manual

synthetic operations performed by a chemist. The above devices, with appropriate modification, are suitable for use with the present invention. In addition, numerous combinatorial libraries are themselves commercially available (see, e.g., ComGenex, Princeton, N.J., Asinex, Moscow, Ru, Tripos, Inc., St. Louis, MO, ChemStar, Ltd, Moscow, RU, 3D Pharmaceuticals, Exton, PA, Martek Biosciences, Columbia, MD, etc.).

The assays to identify modulators are amenable to high throughput screening. Preferred assays thus detect modulation of metastatic colorectal cancer gene transcription, polypeptide expression, and polypeptide activity.

High throughput assays for evaluating the presence, absence, quantification, or other properties of particular nucleic acids or protein products are well known to those of skill in the art. Similarly, binding assays and reporter gene assays are similarly well known. Thus, e.g., U.S. Patent No. 5,559,410 discloses high throughput screening methods for proteins, U.S. Patent No. 5,585,639 discloses high throughput screening methods for nucleic acid binding (i.e., in arrays), while U.S. Patent Nos. 5,576,220 and 5,541,061 disclose high throughput methods of screening for ligand/antibody binding.

In addition, high throughput screening systems are commercially available (see, e.g., Zymark Corp., Hopkinton, MA; Air Technical Industries, Mentor, OH; Beckman Instruments, Inc. Fullerton, CA; Precision Systems, Inc., Natick, MA, etc.). These systems typically automate procedures, including sample and reagent pipetting, liquid dispensing, timed incubations, and final readings of the microplate in detector(s) appropriate for the assay. These configurable systems provide high throughput and rapid start up as well as a high degree of flexibility and customization. The manufacturers of such systems provide detailed protocols for various high throughput systems. Thus, e.g., Zymark Corp. provides technical bulletins describing screening systems for detecting the modulation of gene transcription, ligand binding, and the like.

In one embodiment, modulators are proteins, often naturally occurring proteins or fragments of naturally occurring proteins. Thus, e.g., cellular extracts containing proteins, or random or directed digests of proteinaceous cellular extracts, may be used. In this way libraries of proteins may be made for screening in the methods of the invention. Particularly preferred in this embodiment are libraries of bacterial, fungal, viral, and mammalian proteins, with the latter being preferred, and human proteins being especially preferred. Particularly useful test compound will be directed to the class of proteins to which the target belongs, e.g., substrates for enzymes or ligands and receptors.

In a preferred embodiment, modulators are peptides of from about 5 to about 30 amino acids, with from about 5 to about 20 amino acids being preferred, and from about 7 to about 15 being particularly preferred. The peptides may be digests of naturally occurring proteins as is outlined above, random peptides, or "biased" random peptides. By "randomized" or grammatical equivalents herein is meant that the nucleic acid or peptide consists of essentially random sequences of nucleotides and amino acids, respectively. Since these random peptides (or nucleic acids, discussed below) are often chemically synthesized, they may incorporate any nucleotide or amino acid at any position. The synthetic process can be designed to generate randomized proteins or nucleic acids, to allow the formation of all or most of the possible combinations over the length of the sequence, thus forming a library of randomized candidate bioactive proteinaceous agents.

In one embodiment, the library is fully randomized, with no sequence preferences or constants at any position. In a preferred embodiment, the library is biased. That is, some positions within the sequence are either held constant, or are selected from a limited number of possibilities. In a preferred embodiment, the nucleotides or amino acid residues are randomized within a defined class, e.g., of hydrophobic amino acids, hydrophilic residues, sterically biased (either small or large) residues, towards the creation of nucleic acid binding domains, the creation of cysteines, for cross-linking, prolines for SH-3 domains, serines, threonines, tyrosines or histidines for phosphorylation sites, etc.

Modulators of metastatic colorectal cancer can also be nucleic acids, as defined above.

As described above generally for proteins, nucleic acid modulating agents may be naturally occurring nucleic acids, random nucleic acids, or "biased" random nucleic acids. Digests of procaryotic or eucaryotic genomes may be used as is outlined above for proteins.

In a preferred embodiment, the candidate compounds are organic chemicalmoieties, a wide variety of which are available in the literature.

After a candidate agent has been added and the cells allowed to incubate for some period of time, the sample containing a target sequence is analyzed. If required, the target sequence is prepared using known techniques. For example, the sample may be treated to lyse the cells, using known lysis buffers, electroporation, etc., with purification and/or amplification such as PCR performed as appropriate. For example, an *in vitro* transcription with labels covalently attached to the nucleotides is performed. Generally, the nucleic acids are labeled with biotin-FITC or PE, or with cy3 or cy5.

In a preferred embodiment, the target sequence is labeled with, e.g., a fluorescent, a chemiluminescent, a chemical, or a radioactive signal, to provide a means of detecting the target sequence's specific binding to a probe. The label also can be an enzyme, such as, alkaline phosphatase or horseradish peroxidase, which when provided with an appropriate substrate produces a product that can be detected. Alternatively, the label can be a labeled compound or small molecule, such as an enzyme inhibitor, that binds but is not catalyzed or altered by the enzyme. The label also can be a moiety or compound, such as, an epitope tag or biotin which specifically binds to streptavidin. For the example of biotin, the streptavidin is labeled as described above, thereby, providing a detectable signal for the bound target sequence. Unbound labeled streptavidin is typically removed prior to analysis.

Nucleic acid assays can be direct hybridization assays or can comprise "sandwich assays", which include the use of multiple probes, as is generally outlined in U.S. Patent Nos. 5,681,702, 5,597,909, 5,545,730, 5,594,117, 5,591,584, 5,571,670, 5,580,731,—5,571,670, 5,591,584, 5,624,802, 5,635,352, 5,594,118, 5,359,100, 5,124,246 and 5,681,697, all of which are hereby incorporated by reference. In this embodiment, in general, the target nucleic acid is prepared as outlined above, and then added to the biochip comprising a plurality of nucleic acid probes, under conditions that allow the formation of a hybridization complex.

A variety of hybridization conditions may be used in the present invention, including high, moderate and low stringency conditions as outlined above. The assays are generally run under stringency conditions which allow formation of the label probe hybridization complex only in the presence of target. Stringency can be controlled by altering a step parameter that is a thermodynamic variable, including, but not limited to, temperature, formamide concentration, salt concentration, chaotropic salt concentration, pH, organic solvent concentration, etc.

These parameters may also be used to control non-specific binding, as is generally outlined in U.S. Patent No. 5,681,697. Thus it may be desirable to perform certain steps at higher stringency conditions to reduce non-specific binding.

The reactions outlined herein may be accomplished in a variety of ways. Components of the reaction may be added simultaneously, or sequentially, in different orders, with preferred embodiments outlined below. In addition, the reaction may include a variety of other reagents. These include salts, buffers, neutral proteins, e.g., albumin, detergents, etc. which may be used to facilitate optimal hybridization and detection, and/or reduce non-specific or background interactions. Reagents that otherwise improve the efficiency of the

assay, such as protease inhibitors, nuclease inhibitors, anti-microbial agents, etc., may also be used as appropriate, depending on the sample preparation methods and purity of the target.

The assay data are analyzed to determine the expression levels, and changes in expression levels as between states, of individual genes, forming a gene expression profile.

Screens are performed to identify modulators of the metastatic colorectal cancer phenotype. In one embodiment, screening is performed to identify modulators that can induce or suppress a particular expression profile, thus preferably generating the associated phenotype. In another embodiment, e.g., for diagnostic applications, having identified differentially expressed genes important in a particular state, screens can be performed to identify modulators that alter expression of individual genes. In an another embodiment, screening is performed to identify modulators that alter a biological function of the expression product of a differentially expressed gene. Again, having identified the importance of a gene in a particular state, screens are performed to identify agents that bind and/or modulate the biological activity of the gene product, or evaluate genetic polymorphisms.

Genes can be screened for those that are induced in response to a candidate agent. After identifying a modulator based upon its ability to suppress a metastatic colorectal cancer expression pattern leading to a normal expression pattern, or to modulate a single metastatic colorectal cancer gene expression profile so as to mimic the expression of the gene from normal tissue, a screen as described above can be performed to identify genes that are specifically modulated in response to the agent. Comparing expression profiles between normal tissue and agent treated metastatic colorectal cancer tissue reveals genes that are not expressed in normal tissue or metastatic colorectal cancer tissue, but are expressed in agent treated tissue. These agent-specific sequences can be identified and used by methods described herein for metastatic colorectal cancer genes or proteins. In particular these sequences and the proteins they encode find use in marking or identifying agent treated cells. In addition, antibodies can be raised against the agent induced proteins and used to target novel therapeutics to the treated metastatic colorectal cancer tissue sample.

Thus, in one embodiment, a test compound is administered to a population of metastatic colorectal cancer cells, that have an associated metastatic colorectal cancer expression profile. By "administration" or "contacting" herein is meant that the candidate agent is added to the cells in such a manner as to allow the agent to act upon the cell, whether by uptake and intracellular action, or by action at the cell surface. In some embodiments, nucleic acid encoding a proteinaceous candidate agent (i.e., a peptide) may be put into a viral

construct such as an adenoviral or retroviral construct, and added to the cell, such that expression of the peptide agent is accomplished, e.g., PCT US97/01019. Regulatable gene therapy systems can also be used.

Once the test compound has been administered to the cells, the cells can be washed if desired and are allowed to incubate under preferably physiological conditions for some period of time. The cells are then harvested and a new gene expression profile is generated, as outlined herein.

Thus, e.g., metastatic colorectal cancer tissue may be screened for agents that modulate, e.g., induce or suppress the metastatic colorectal cancer phenotype. A change in at least one gene, preferably many, of the expression profile indicates that the agent has an effect on metastatic colorectal cancer activity. By defining such a signature for the metastatic colorectal cancer phenotype, screens for new drugs that alter the phenotype can be devised. With this approach, the drug target need not be known and need not be represented in the original expression screening platform, nor does the level of transcript for the target protein need to change.

Measure of metastatic colorectal cancer polypeptide activity, or of metastatic colorectal cancer or the metastatic colorectal cancer phenotype can be performed using a variety of assays. For example, the effects of the test compounds upon the function of the metastatic polypeptides can be measured by examining parameters described above. A suitable physiological change that affects activity can be used to assess the influence of a test compound on the polypeptides of this invention. When the functional consequences are determined using intact cells or animals, one can also measure a variety of effects such as, in the case of metastatic colorectal cancer associated with tumors, tumor growth, tumor metastasis, neovascularization, hormone release, transcriptional changes to both known and uncharacterized genetic markers (e.g., northern blots), changes in cell metabolism such as cell growth or pH changes, and changes in intracellular second messengers such as cGMP. In the assays of the invention, mammalian metastatic colorectal cancer polypeptide is typically used, e.g., mouse, preferably human.

Assays to identify compounds with modulating activity can be performed in vitro. For example, a colorectal cancer polypeptide is first contacted with a potential modulator and incubated for a suitable amount of time, e.g., from 0.5 to 48 hours. In one embodiment, the metastatic colorectal cancer polypeptide levels are determined in vitro by measuring the level of protein or mRNA. The level of protein is measured using immunoassays such as western blotting, ELISA and the like with an antibody that selectively

binds to the metastatic colorectal cancer polypeptide or a fragment thereof. For measurement of mRNA, amplification, e.g., using PCR, LCR, or hybridization assays, e.g., northern hybridization, RNAse protection, dot blotting, are preferred. The level of protein or mRNA is detected using directly or indirectly labeled detection agents, e.g., fluorescently or radioactively labeled nucleic acids, radioactively or enzymatically labeled antibodies, and the like, as described herein.

Alternatively, a reporter gene system can be devised using the metastatic colorectal cancer protein promoter operably linked to a reporter gene such as luciferase, green fluorescent protein, CAT, or  $\beta$ -gal. The reporter construct is typically transfected into a cell. After treatment with a potential modulator, the amount of reporter gene transcription, translation, or activity is measured according to standard techniques known to those of skill in the art.

In a preferred embodiment, as outlined above, screens may be done on individual genes and gene products (proteins). That is, having identified a particular differentially expressed gene as important in a particular state, screening of modulators of the expression of the gene or the gene product itself can be done. The gene products of differentially expressed genes are sometimes referred to herein as "metastatic colorectal cancer proteins." The metastatic colorectal cancer protein may be a fragment, or alternatively, be the full length protein to a fragment shown herein.

In one embodiment, screening for modulators of expression of specific genes is performed. Typically, the expression of only one or a few genes are evaluated. In another embodiment, screens are designed to first find compounds that bind to differentially expressed proteins. These compounds are then evaluated for the ability to modulate differentially expressed activity. Moreover, once initial candidate compounds are identified, variants can be further screened to better evaluate structure activity relationships.

In a preferred embodiment, binding assays are done. In general, purified or isolated gene product is used; that is, the gene products of one or more differentially expressed nucleic acids are made. For example, antibodies are generated to the protein gene products, and standard immunoassays are run to determine the amount of protein present. Alternatively, cells comprising the metastatic colorectal cancer proteins can be used in the assays.

Thus, in a preferred embodiment, the methods comprise combining a metastatic colorectal cancer protein and a candidate compound, and determining the binding of the compound to the metastatic colorectal cancer protein. Preferred embodiments utilize

the human metastatic colorectal cancer protein, although other mammalian proteins may also be used, e.g., for the development of animal models of human disease. In some embodiments, as outlined herein, variant or derivative metastatic colorectal cancer proteins may be used.

Generally, in a preferred embodiment of the methods herein, the metastatic colorectal cancer protein or the candidate agent is non-diffusably bound to an insoluble support having isolated sample receiving areas (e.g., a microtiter plate, an array, etc.). The insoluble supports may be made of any composition to which the compositions can be bound, is readily separated from soluble material, and is otherwise compatible with the overall method of screening. The surface of such supports may be solid or porous and of any convenient shape. Examples of suitable insoluble supports include microtiter plates, arrays, membranes and beads. These are typically made of glass, plastic (e.g., polystyrene), polysaccharides, nylon or nitrocellulose, teflon™, etc. Microtiter plates and arrays are especially convenient because a large number of assays can be carried out simultaneously, using small amounts of reagents and samples. The particular manner of binding of the composition is not crucial so long as it is compatible with the reagents and overall methods of the invention, maintains the activity of the composition and is nondiffusable. Preferred methods of binding include the use of antibodies (which do not sterically block either the ligand binding site or activation sequence when the protein is bound to the support), direct binding to "sticky" or ionic supports, chemical crosslinking, the synthesis of the protein or agent on the surface, etc. Following binding of the protein or agent, excess unbound material is removed by washing. The sample receiving areas may then be blocked through incubation with bovine serum albumin (BSA), casein or other innocuous protein or other moiety.

In a preferred embodiment, the metastatic colorectal cancer protein is bound to the support, and a test compound is added to the assay. Alternatively, the candidate agent is bound to the support and the metastatic colorectal cancer protein is added. Novel binding agents include specific antibodies, non-natural binding agents identified in screens of chemical libraries, peptide analogs, etc. Of particular interest are screening assays for agents that have a low toxicity for human cells. A wide variety of assays may be used for this purpose, including labeled *in vitro* protein-protein binding assays, electrophoretic mobility shift assays, immunoassays for protein binding, functional assays (phosphorylation assays, etc.) and the like.

The determination of the binding of the test modulating compound to the metastatic colorectal cancer protein may be done in a number of ways. In a preferred embodiment, the compound is labeled, and binding determined directly, e.g., by attaching all

or a portion of the metastatic colorectal cancer protein to a solid support, adding a labeled candidate agent (e.g., a fluorescent label), washing off excess reagent, and determining whether the label is present on the solid support. Various blocking and washing steps may be utilized as appropriate.

In some embodiments, only one of the components is labeled, e.g., the proteins (or proteinaceous candidate compounds) can be labeled. Alternatively, more than one component can be labeled with different labels, e.g., <sup>125</sup>I for the proteins and a fluorophor for the compound. Proximity reagents, e.g., quenching or energy transfer reagents are also useful.

In one embodiment, the binding of the test compound is determined by competitive binding assay. The competitor is a binding moiety known to bind to the target molecule (i.e., a metastatic colorectal cancer protein), such as an antibody, peptide, binding partner, ligand, etc. Under certain circumstances, there may be competitive binding between the compound and the binding moiety, with the binding moiety displacing the compound. In one embodiment, the test compound is labeled. Either the compound, or the competitor, or both, is added first to the protein for a time sufficient to allow binding, if present.

Incubations may be performed at a temperature which facilitates optimal activity, typically between 4 and 40°C. Incubation periods are typically optimized, e.g., to facilitate rapid high throughput screening. Typically between 0.1 and 1 hour will be sufficient. Excess reagent is generally removed or washed away. The second component is then added, and the presence or absence of the labeled component is followed, to indicate binding.

In a preferred embodiment, the competitor is added first, followed by the test compound. Displacement of the competitor is an indication that the test compound is binding to the metastatic colorectal cancer protein and thus is capable of binding to, and potentially modulating, the activity of the metastatic colorectal cancer protein. In this embodiment, — either component can be labeled. Thus, e.g., if the competitor is labeled, the presence of label in the wash solution indicates displacement by the agent. Alternatively, if the test compound is labeled, the presence of the label on the support indicates displacement.

In an alternative embodiment, the test compound is added first, with incubation and washing, followed by the competitor. The absence of binding by the competitor may indicate that the test compound is bound to the metastatic colorectal cancer protein with a higher affinity. Thus, if the test compound is labeled, the presence of the label on the support, coupled with a lack of competitor binding, may indicate that the test compound is capable of binding to the metastatic colorectal cancer protein.

In a preferred embodiment, the methods comprise differential screening to identity agents that are capable of modulating the activity of the metastatic colorectal cancer proteins. In this embodiment, the methods comprise combining a metastatic colorectal cancer protein and a competitor in a first sample. A second sample comprises a test compound, a metastatic colorectal cancer protein, and a competitor. The binding of the competitor is determined for both samples, and a change, or difference in binding between the two samples indicates the presence of an agent capable of binding to the metastatic colorectal cancer protein and potentially modulating its activity. That is, if the binding of the competitor is different in the second sample relative to the first sample, the agent is capable of binding to the metastatic colorectal cancer protein.

Alternatively, differential screening is used to identify drug candidates that bind to the native metastatic colorectal cancer protein, but cannot bind to modified metastatic colorectal cancer proteins. The structure of the metastatic colorectal cancer protein may be modeled, and used in rational drug design to synthesize agents that interact with that site. Drug candidates that affect the activity of a metastatic colorectal cancer protein are also identified by screening drugs for the ability to either enhance or reduce the activity of the protein.

Positive controls and negative controls may be used in the assays. Preferably control and test samples are performed in at least triplicate to obtain statistically significant results. Incubation of all samples is for a time sufficient for the binding of the agent to the protein. Following incubation, samples are washed free of non-specifically bound material and the amount of bound, generally labeled agent determined. For example, where a radiolabel is employed, the samples may be counted in a scintillation counter to determine the amount of bound compound.

A variety of other reagents may be included in the screening assays. These-include reagents like salts, neutral proteins, e.g., albumin, detergents, etc. which may be used to facilitate optimal protein-protein binding and/or reduce non-specific or background interactions. Also reagents that otherwise improve the efficiency of the assay, such as protease inhibitors, nuclease inhibitors, anti-microbial agents, etc., may be used. The mixture of components may be added in an order that provides for the requisite binding.

In a preferred embodiment, the invention provides methods for screening for a compound capable of modulating the activity of a metastatic colorectal cancer protein. The methods comprise adding a test compound, as defined above, to a cell comprising metastatic colorectal cancer proteins. Preferred cell types include almost any cell. The cells contain a

recombinant nucleic acid that encodes a metastatic colorectal cancer protein. In a preferred embodiment, a library of candidate agents are tested on a plurality of cells.

In one aspect, the assays are evaluated in the presence or absence or previous or subsequent exposure of physiological signals, e.g., hormones, antibodies, peptides, antigens, cytokines, growth factors, action potentials, pharmacological agents including chemotherapeutics, radiation, carcinogenics, or other cells (i.e. cell-cell contacts). In another example, the determinations are determined at different stages of the cell cycle process.

In this way, compounds that modulate metastatic colorectal cancer agents are identified. Compounds with pharmacological activity are able to enhance or interfere with the activity of the metastatic colorectal cancer protein. Once identified, similar structures are evaluated to identify critical structural feature of the compound.

In one embodiment, a method of inhibiting metastatic colorectal cancer cell division is provided. The method comprises administration of a metastatic colorectal cancer inhibitor. In another embodiment, a method of inhibiting metastatic colorectal cancer is provided. The method comprises administration of a metastatic colorectal cancer inhibitor. In a further embodiment, methods of treating cells or individuals with metastatic colorectal cancer are provided. The method comprises administration of a metastatic colorectal cancer inhibitor.

A variety of cell growth, proliferation, and metastasis assays are known to those of skill in the art, as described below.

#### Soft agar growth or colony formation in suspension

Normal cells require a solid substrate to attach and grow. When the cells are transformed, they lose this phenotype and grow detached from the substrate. For example, transformed cells can grow in stirred suspension culture or suspended in semi-solid media, such as semi-solid or soft agar. The transformed cells, when transfected with tumor suppressor genes, regenerate normal phenotype and require a solid substrate to attach and grow. Soft agar growth or colony formation in suspension assays can be used to identify modulators of metastatic colorectal cancer sequences, which when expressed in host cells, inhibit abnormal cellular proliferation and transformation. A therapeutic compound would reduce or eliminate the host cells' ability to grow in stirred suspension culture or suspended in semi-solid media, such as semi-solid or soft.

Techniques for soft agar growth or colony formation in suspension assays are described in Freshney, Culture of Animal Cells a Manual of Basic Technique (3<sup>rd</sup> ed., 1994).

herein incorporated by reference. See also, the methods section of Garkavtsev et al. (1996), supra, herein incorporated by reference.

## Contact inhibition and density limitation of growth

Normal cells typically grow in a flat and organized pattern in a petri dish until they touch other cells. When the cells touch one another, they are contact inhibited and stop growing. When cells are transformed, however, the cells are not contact inhibited and continue to grow to high densities in disorganized foci. Thus, the transformed cells grow to a higher saturation density than normal cells. This can be detected morphologically by the formation of a disoriented monolayer of cells or rounded cells in foci within the regular pattern of normal surrounding cells. Alternatively, labeling index with (<sup>3</sup>H)-thymidine at saturation density can be used to measure density limitation of growth. See Freshney (1994), supra. The transformed cells, when transfected with tumor suppressor genes, regenerate anormal phenotype and become contact inhibited and would grow to a lower density.

In this assay, labeling index with (<sup>3</sup>H)-thymidine at saturation density is a preferred method of measuring density limitation of growth. Transformed host cells are transfected with a metastatic colorectal cancer-associated sequence and are grown for 24 hours at saturation density in non-limiting medium conditions. The percentage of cells labeling with (<sup>3</sup>H)-thymidine is determined autoradiographically. *See*, Freshney (1994), *supra*.

#### Growth factor or serum dependence

Transformed cells have a lower serum dependence than their normal counterparts (see, e.g., Temin, J. Natl. Cancer Insti. 37:167-175 (1966); Eagle et al., J. Exp. Med. 131:836-879 (1970)); Freshney, supra. This is in part due to release of various growth factors by the transformed cells. Growth factor or serum dependence of transformed host cells can be compared with that of control.

# Tumor specific markers levels

Tumor cells release an increased amount of certain factors (hereinafter "tumor specific markers") than their normal counterparts. For example, plasminogen activator (PA) is released from human glioma at a higher level than from normal brain cells (see, e.g., Gullino, Angiogenesis, tumor vascularization, and potential interference with tumor growth. in Biological Responses in Cancer, pp. 178-184 (Mihich (ed.) 1985)). Similarly, Tumor

angiogenesis factor (TAF) is released at a higher level in tumor cells than their normal counterparts. See, e.g., Folkman, Angiogenesis and Cancer, Sem Cancer Biol. (1992)).

Various techniques which measure the release of these factors are described in Freshney (1994), supra. Also, see, Unkless et al., J. Biol. Chem. 249:4295-4305 (1974); Strickland & Beers, J. Biol. Chem. 251:5694-5702 (1976); Whur et al., Br. J. Cancer 42:305-312 (1980); Gullino, Angiogenesis, tumor vascularization, and potential interference with tumor growth. in Biological Responses in Cancer, pp. 178-184 (Mihich (ed.) 1985); Freshney Anticancer Res. 5:111-130 (1985).

### Invasiveness into Matrigel

The degree of invasiveness into Matrigel or some other extracellular matrix constituent can be used as an assay to identify compounds that modulate metastatic colorectal cancer-associated sequences. Tumor cells exhibit a good correlation between malignancy—and invasiveness of cells into Matrigel or some other extracellular matrix constituent. In this assay, tumorigenic cells are typically used as host cells. Expression of a tumor suppressor gene in these host cells would decrease invasiveness of the host cells.

Techniques described in Freshney (1994), *supra*, can be used. Briefly, the level of invasion of host cells can be measured by using filters coated with Matrigel or some other extracellular matrix constituent. Penetration into the gel, or through to the distal side of the filter, is rated as invasiveness, and rated histologically by number of cells and distance moved, or by prelabeling the cells with <sup>125</sup>I and counting the radioactivity on the distal side of the filter or bottom of the dish. *See, e.g.*, Freshney (1984), *supra*.

#### Tumor growth in vivo

Effects of metastatic colorectal cancer-associated sequences on cell growth-can be tested in transgenic or immune-suppressed mice. Knock-out transgenic mice can be made, in which the metastatic colorectal cancer gene is disrupted or in which a metastatic colorectal cancer gene is inserted. Knock-out transgenic mice can be made by insertion of a marker gene or other heterologous gene into the endogenous metastatic colorectal cancer gene site in the mouse genome via homologous recombination. Such mice can also be made by substituting the endogenous metastatic colorectal cancer gene with a mutated version of the metastatic colorectal cancer gene, or by mutating the endogenous metastatic colorectal cancer gene, e.g., by exposure to carcinogens.

A DNA construct is introduced into the nuclei of embryonic stem cells. Cells containing the newly engineered genetic lesion are injected into a host mouse embryo, which is re-implanted into a recipient female. Some of these embryos develop into chimeric mice that possess germ cells partially derived from the mutant cell line. Therefore, by breeding the chimeric mice it is possible to obtain a new line of mice containing the introduced genetic lesion (see, e.g., Capecchi et al., Science 244:1288 (1989)). Chimeric targeted mice can be derived according to Hogan et al., Manipulating the Mouse Embryo: A Laboratory Manual, Cold Spring Harbor Laboratory (1988) and Teratocarcinomas and Embryonic Stem Cells: A Practical Approach, Robertson, ed., IRL Press, Washington, D.C., (1987).

Alternatively, various immune-suppressed or immune-deficient host animals can be used. For example, genetically athymic "nude" mouse (see, e.g., Giovanella et al., J. Natl. Cancer Inst. 52:921 (1974)), a SCID mouse, a thymectomized mouse, or an irradiated mouse (see, e.g., Bradley et al., Br. J. Cancer 38:263 (1978); Selby et al., Br. J. Cancer = 41:52 (1980)) can be used as a host. Transplantable tumor cells (typically about 10<sup>6</sup> cells) injected into isogenic hosts will produce invasive tumors in a high proportions of cases, while normal cells of similar origin will not. In hosts which developed invasive tumors, cells expressing a metastatic colorectal cancer-associated sequences are injected subcutaneously. After a suitable length of time, preferably 4-8 weeks, tumor growth is measured (e.g., by volume or by its two largest dimensions) and compared to the control. Tumors that have statistically significant reduction (using, e.g., Student's T test) are said to have inhibited growth. Additionally, human tumor cells expressing the genes of the invention may be injected into immune compromised animals. Growth of these tumors, or xenografts, is compared to growth of similar human tumor cell that do not express the genes of the invention. These animals may also be used to binding assays and efficacy studies for therapeutic compounds that modulate metastatic colorectal cancer, such as antibodies or small molecules.

#### Polynucleotide modulators of metastatic colorectal cancer

Antisense Polynucleotides

In certain embodiments, the activity of a metastatic colorectal cancerassociated protein is downregulated, or entirely inhibited, by the use of antisense polynucleotide, i.e., a nucleic acid complementary to, and which can preferably hybridize specifically to, a coding mRNA nucleic acid sequence, e.g., a metastatic colorectal cancer

protein mRNA, or a subsequence thereof. Binding of the antisense polynucleotide to the mRNA reduces the translation and/or stability of the mRNA.

In the context of this invention, antisense polynucleotides can comprise naturally-occurring nucleotides, or synthetic species formed from naturally-occurring subunits or their close homologs. Antisense polynucleotides may also have altered sugar moieties or inter-sugar linkages. Exemplary among these are the phosphorothioate and other sulfur containing species which are known for use in the art. Analogs are comprehended by this invention so long as they function effectively to hybridize with the metastatic colorectal cancer protein mRNA. See, e.g., Isis Pharmaceuticals, Carlsbad, CA; Sequitor, Inc., Natick, MA.

Such antisense polynucleotides can readily be synthesized using recombinant means, or can be synthesized *in vitro*. Equipment for such synthesis is sold by several vendors, including Applied Biosystems. The preparation of other oligonucleotides such asphorothioates and alkylated derivatives is also well known to those of skill in the art.

Antisense molecules as used herein include antisense or sense oligonucleotides. Sense oligonucleotides can, e.g., be employed to block transcription by binding to the anti-sense strand. The antisense and sense oligonucleotide comprise a single-stranded nucleic acid sequence (either RNA or DNA) capable of binding to target mRNA (sense) or DNA (antisense) sequences for metastatic colorectal cancer molecules. A preferred antisense molecule is for a metastatic colorectal cancer sequence in Tables 1-26, or for a ligand or activator thereof. Antisense or sense oligonucleotides, according to the present invention, comprise a fragment generally at least about 14 nucleotides, preferably from about 14 to 30 nucleotides. The ability to derive an antisense or a sense oligonucleotide, based upon a cDNA sequence encoding a given protein is described in, e.g., Stein & Cohen (Cancer Res. 48:2659 (1988 and van der Krol et al. (BioTechniques 6:958-(1988)).

#### Ribozymes

In addition to antisense polynucleotides, ribozymes can be used to target and inhibit transcription of metastatic colorectal cancer-associated nucleotide sequences. A ribozyme is an RNA molecule that catalytically cleaves other RNA molecules. Different kinds of ribozymes have been described, including group I ribozymes, hammerhead ribozymes, hairpin ribozymes, RNase P, and axhead ribozymes (see, e.g., Castanotto et al.,

Adv. in Pharmacology 25: 289-317 (1994) for a general review of the properties of different ribozymes).

The general features of hairpin ribozymes are described, e.g., in Hampel et al., Nucl. Acids Res. 18:299-304 (1990); European Patent Publication No. 0 360 257; U.S. Patent No. 5,254,678. Methods of preparing are well known to those of skill in the art (see, e.g., WO 94/26877; Ojwang et al., Proc. Natl. Acad. Sci. USA 90:6340-6344 (1993); Yamada et al., Human Gene Therapy 1:39-45 (1994); Leavitt et al., Proc. Natl. Acad. Sci. USA 92:699-703 (1995); Leavitt et al., Human Gene Therapy 5:1151-120 (1994); and Yamada et al., Virology 205: 121-126 (1994)).

Polynucleotide modulators of metastatic colorectal cancer may be introduced into a cell containing the target nucleotide sequence by formation of a conjugate with a ligand binding molecule, as described in WO 91/04753. Suitable ligand binding molecules include, but are not limited to, cell surface receptors, growth factors, other cytokines, or other ligands that bind to cell surface receptors. Preferably, conjugation of the ligand binding molecule does not substantially interfere with the ability of the ligand binding molecule to bind to its corresponding molecule or receptor, or block entry of the sense or antisense oligonucleotide or its conjugated version into the cell. Alternatively, a polynucleotide modulator of metastatic colorectal cancer may be introduced into a cell containing the target nucleic acid sequence, e.g., by formation of an polynucleotide-lipid complex, as described in WO 90/10448. It is understood that the use of antisense molecules or knock out and knock in models may also be used in screening assays as discussed above, in addition to methods of treatment.

Thus, in one embodiment, methods of modulating metastatic colorectal cancer in cells or organisms are provided. In one embodiment, the methods comprise administering to a cell an anti-metastatic colorectal cancer antibody that reduces or eliminates the biological activity of an endogenous metastatic colorectal cancer protein. Alternatively, the methods comprise administering to a cell or organism a recombinant nucleic acid encoding a metastatic colorectal cancer protein. This may be accomplished in any number of ways. In a preferred embodiment, e.g., when the metastatic colorectal cancer sequence is down-regulated in metastatic colorectal cancer, such state may be reversed by increasing the amount of metastatic colorectal cancer gene product in the cell. This can be accomplished, e.g., by overexpressing the endogenous metastatic colorectal cancer gene or administering a gene encoding the metastatic colorectal cancer sequence, using known gene-therapy techniques. In a preferred embodiment, the gene therapy techniques include the

incorporation of the exogenous gene using enhanced homologous recombination (EHR), e.g., as described in PCT/US93/03868, hereby incorporated by reference in its entirety.

Alternatively, e.g., when the metastatic colorectal cancer sequence is up-regulated in metastatic colorectal cancer, the activity of the endogenous metastatic colorectal cancer gene is decreased, e.g., by the administration of a metastatic colorectal cancer antisense nucleic acid.

In one embodiment, the metastatic colorectal cancer proteins of the present invention may be used to generate polyclonal and monoclonal antibodies to metastatic colorectal cancer proteins. Similarly, the metastatic colorectal cancer proteins can be coupled, using standard technology, to affinity chromatography columns. These columns may then be used to purify metastatic colorectal cancer antibodies useful for production, diagnostic, or therapeutic purposes. In a preferred embodiment, the antibodies are generated to epitopes unique to a metastatic colorectal cancer protein; that is, the antibodies show little or no cross-reactivity to other proteins. The metastatic colorectal cancer antibodies may be coupled to standard affinity chromatography columns and used to purify metastatic colorectal cancer proteins. The antibodies may also be used as blocking polypeptides, as outlined above, since they will specifically bind to the metastatic colorectal cancer protein.

### Methods of identifying variant metastatic colorectal cancer-associated sequences

Without being bound by theory, expression of various metastatic colorectal cancer sequences is correlated with metastatic colorectal cancer. Accordingly, disorders based on mutant or variant metastatic colorectal cancer genes may be determined. In one embodiment, the invention provides methods for identifying cells containing variant metastatic colorectal cancer genes, e.g., determining all or part of the sequence of at least one endogenous metastatic colorectal cancer genes in a cell. This may be accomplished using—any number of sequencing techniques. In a preferred embodiment, the invention provides methods of identifying the metastatic colorectal cancer genotype of an individual, e.g., determining all or part of the sequence of at least one metastatic colorectal cancer gene of the individual. This is generally done in at least one tissue of the individual, and may include the evaluation of a number of tissues or different samples of the same tissue. The method may include comparing the sequence of the sequenced metastatic colorectal cancer gene to a known metastatic colorectal cancer gene, i.e., a wild-type gene.

The sequence of all or part of the metastatic colorectal cancer gene can then be compared to the sequence of a known metastatic colorectal cancer gene to determine if any

differences exist. This can be done using any number of known homology programs, such as Bestfit, etc. In a preferred embodiment, the presence of a difference in the sequence between the metastatic colorectal cancer gene of the patient and the known metastatic colorectal cancer gene correlates with a disease state or a propensity for a disease state, as outlined herein.

In a preferred embodiment, the metastatic colorectal cancer genes are used as probes to determine the number of copies of the metastatic colorectal cancer gene in the genome.

In another preferred embodiment, the metastatic colorectal cancer genes are used as probes to determine the chromosomal localization of the metastatic colorectal cancer genes. Information such as chromosomal localization finds use in providing a diagnosis or prognosis in particular when chromosomal abnormalities such as translocations, and the like are identified in the metastatic colorectal cancer gene locus.

#### Administration of pharmaceutical and vaccine compositions

In one embodiment, a therapeutically effective dose of a metastatic colorectal cancer protein or modulator thereof, is administered to a patient. By "therapeutically effective dose" herein is meant a dose that produces effects for which it is administered. The exact dose will depend on the purpose of the treatment, and will be ascertainable by one skilled in the art using known techniques (e.g., Ansel et al., Pharmaceutical Dosage Forms and Drug Delivery; Lieberman, Pharmaceutical Dosage Forms (vols. 1-3, 1992), Dekker, ISBN 0824770846, 082476918X, 0824712692, 0824716981; Lloyd, The Art, Science and Technology of Pharmaceutical Compounding (1999); and Pickar, Dosage Calculations (1999)). As is known in the art, adjustments for metastatic colorectal cancer degradation, systemic versus localized delivery, and rate of new protease synthesis, as well as the age, body weight, general health, sex, diet, time of administration, drug interaction and the severity of the condition may be necessary, and will be ascertainable with routine experimentation by those skilled in the art.

A "patient" for the purposes of the present invention includes both humans and other animals, particularly mammals. Thus the methods are applicable to both human therapy and veterinary applications. In the preferred embodiment the patient is a mammal, preferably a primate, and in the most preferred embodiment the patient is human.

The administration of the metastatic colorectal cancer proteins and modulators thereof of the present invention can be done in a variety of ways as discussed above,

including, but not limited to, orally, subcutaneously, intravenously, intranasally, transdermally, intraperitoneally, intramuscularly, intrapulmonary, vaginally, rectally, or intraocularly. In some instances, e.g., in the treatment of wounds and inflammation, the metastatic colorectal cancer proteins and modulators may be directly applied as a solution or spray.

The pharmaceutical compositions of the present invention comprise a metastatic colorectal cancer protein in a form suitable for administration to a patient. In the preferred embodiment, the pharmaceutical compositions are in a water soluble form, such as being present as pharmaceutically acceptable salts, which is meant to include both acid and base addition salts. "Pharmaceutically acceptable acid addition salt" refers to those salts that retain the biological effectiveness of the free bases and that are not biologically or otherwise undesirable, formed with inorganic acids such as hydrochloric acid, hydrobromic acid, sulfuric acid, nitric acid, phosphoric acid and the like, and organic acids such as acetic acid. propionic acid, glycolic acid, pyruvic acid, oxalic acid, maleic acid, malonic acid, succinic acid, fumaric acid, tartaric acid, citric acid, benzoic acid, cinnamic acid, mandelic acid, methanesulfonic acid, ethanesulfonic acid, p-toluenesulfonic acid, salicylic acid and the like. "Pharmaceutically acceptable base addition salts" include those derived from inorganic bases such as sodium, potassium, lithium, ammonium, calcium, magnesium, iron, zinc, copper, manganese, aluminum salts and the like. Particularly preferred are the ammonium, potassium, sodium, calcium, and magnesium salts. Salts derived from pharmaceutically acceptable organic non-toxic bases include salts of primary, secondary, and tertiary amines. substituted amines including naturally occurring substituted amines, cyclic amines and basic ion exchange resins, such as isopropylamine, trimethylamine, diethylamine, triethylamine, tripropylamine, and ethanolamine.

The pharmaceutical compositions may also include one or more of the following: carrier proteins such as serum albumin; buffers; fillers such as microcrystalline cellulose, lactose, corn and other starches; binding agents; sweeteners and other flavoring agents; coloring agents; and polyethylene glycol.

The pharmaceutical compositions can be administered in a variety of unit dosage forms depending upon the method of administration. For example, unit dosage forms suitable for oral administration include, but are not limited to, powder, tablets, pills, capsules and lozenges. It is recognized that metastatic colorectal cancer protein modulators (e.g., antibodies, antisense constructs, ribozymes, small organic molecules, etc.) when administered orally, should be protected from digestion. It is also recognized that, after delivery to other

sites in the body (e.g., circulatory system, lymphatic system, or the tumor site) the metastatic colorectal cancer modulators of the invention may need to be protected from excretion, hydrolisis, proteolytic digestion or modification, or detoxification by the liver. In all these cases, protection is typically accomplished either by complexing the molecule(s) with a composition to render it resistant to acidic and enzymatic hydrolysis, or by packaging the molecule(s) in an appropriately resistant carrier, such as a liposome or a protection barrier or by modifying the molecular size, weight, and/or charge of the modulator. Means of protecting agents from digestion degradation, and excretion are well known in the art.

The compositions for administration will commonly comprise a metastatic colorectal cancer protein modulator dissolved in a pharmaceutically acceptable carrier, preferably an aqueous carrier. A variety of aqueous carriers can be used, e.g., buffered saline and the like. These solutions are sterile and generally free of undesirable matter. These compositions may be sterilized by conventional, well known sterilization techniques. Thecompositions may contain pharmaceutically acceptable auxiliary substances as required to approximate physiological conditions such as pH adjusting and buffering agents, toxicity adjusting agents and the like, e.g., sodium acetate, sodium chloride, potassium chloride, calcium chloride, sodium lactate and the like. The concentration of active agent in these formulations can vary widely, and will be selected primarily based on fluid volumes, viscosities, body weight and the like in accordance with the particular mode of administration selected and the patient's needs (e.g., Remington's Pharmaceutical Science (15th ed., 1980) and Goodman & Gillman, The Pharmacologial Basis of Therapeutics (Hardman et al., eds., 1996)).

Thus, a typical pharmaceutical composition for intravenous administration would be about 0.1 to 10 mg per patient per day. Dosages from 0.1 up to about 100 mg per patient per day may be used, particularly when the drug is administered to a secluded site and not into the blood stream, such as into a body cavity or into a lumen of an organ. Substantially higher dosages are possible in topical administration. Actual methods for preparing parenterally administrable compositions will be known or apparent to those skilled in the art, e.g., Remington's Pharmaceutical Science and Goodman and Gillman, The Pharmacologial Basis of Therapeutics, supra.

The compositions containing modulators of metastatic colorectal cancer proteins can be administered for therapeutic or prophylactic treatments. In therapeutic applications, compositions are administered to a patient suffering from a disease (e.g., a cancer) in an amount sufficient to cure or at least partially arrest the disease and its

complications. An amount adequate to accomplish this is defined as a "therapeutically effective dose." Amounts effective for this use will depend upon the severity of the disease and the general state of the patient's health. Single or multiple administrations of the compositions may be administered depending on the dosage and frequency as required and tolerated by the patient. In any event, the composition should provide a sufficient quantity of the agents of this invention to effectively treat the patient. An amount of modulator that is capable of preventing or slowing the development of cancer in a mammal is referred to as a "prophylactically effective dose." The particular dose required for a prophylactic treatment will depend upon the medical condition and history of the mammal, the particular cancer being prevented, as well as other factors such as age, weight, gender, administration route, efficiency, etc. Such prophylactic treatments may be used, e.g., in a mammal who has previously had cancer to prevent a recurrence of the cancer, or in a mammal who is suspected of having a significant likelihood of developing cancer.

It will be appreciated that the present metastatic colorectal cancer proteinmodulating compounds can be administered alone or in combination with additional metastatic colorectal cancer modulating compounds or with other therapeutic agent, e.g., other anti-cancer agents or treatments.

In numerous embodiments, one or more nucleic acids, e.g., polynucleotides comprising nucleic acid sequences set forth in Tables 1-26, such as antisense polynucleotides or ribozymes, will be introduced into cells, *in vitro* or *in vivo*. The present invention provides methods, reagents, vectors, and cells useful for expression of metastatic colorectal cancer-associated polypeptides and nucleic acids using *in vitro* (cell-free), *ex vivo* or *in vivo* (cell or organism-based) recombinant expression systems.

The particular procedure used to introduce the nucleic acids into a host cell for expression of a protein or nucleic acid is application specific. Many procedures for introducing foreign nucleotide sequences into host cells may be used. These include the use of calcium phosphate transfection, spheroplasts, electroporation, liposomes, microinjection, plasma vectors, viral vectors and any of the other well known methods for introducing cloned genomic DNA, cDNA, synthetic DNA or other foreign genetic material into a host cell (see, e.g., Berger & Kimmel, Guide to Molecular Cloning Techniques, Methods in Enzymology volume 152 (Berger), Ausubel et al., eds., Current Protocols (supplemented through 1999), and Sambrook et al., Molecular Cloning - A Laboratory Manual (2nd ed., Vol. 1-3, 1989.

In a preferred embodiment, metastatic colorectal cancer proteins and modulators are administered as therapeutic agents, and can be formulated as outlined above.

Similarly, metastatic colorectal cancer genes (including both the full-length sequence, partial sequences, or regulatory sequences of the metastatic colorectal cancer coding regions) can be administered in a gene therapy application. These metastatic colorectal cancer genes can include antisense applications, either as gene therapy (i.e., for incorporation into the genome) or as antisense compositions, as will be appreciated by those in the art.

Metastatic colorectal cancer polypeptides and polynucleotides can also be administered as vaccine compositions to stimulate HTL, CTL and antibody responses.. Such vaccine compositions can include, e.g., lipidated peptides (see, e.g., Vitiello, et al., J. Clin. Invest. 95:341 (1995)), peptide compositions encapsulated in poly(DL-lactide-co-glycolide) ("PLG") microspheres (see, e.g., Eldridge, et al., Molec. Immunol. 28:287-294, (1991); Alonso et al., Vaccine 12:299-306 (1994); Jones et al., Vaccine 13:675-681 (1995)), peptide compositions contained in immune stimulating complexes (ISCOMS) (see, e.g., Takahashi et al., Nature 344:873-875 (1990); Hu et al., Clin Exp Immunol. 113:235-243 (1998)), multiple antigen peptide systems (MAPs) (see, e.g., Tam, Proc. Natl. Acad. Sci. U.S.A. 85:5409-5413 (1988); Tam, J. Immunol. Methods 196:17-32 (1996)), peptides formulated as multivalent peptides; peptides for use in ballistic delivery systems, typically crystallized peptides, viral delivery vectors (Perkus, et al., In: Concepts in vaccine development (Kaufmann, ed., p. 379, 1996); Chakrabarti, et al., Nature 320:535 (1986); Hu et al., Nature 320:537 (1986); Kieny, et al., AIDS Bio/Technology 4:790 (1986); Top et al., J. Infect. Dis. 124:148 (1971); Chanda et al., Virology 175:535 (1990)), particles of viral or synthetic origin (see, e.g., Kofler et al., J. Immunol. Methods. 192:25 (1996); Eldridge et al., Sem. Hematol. 30:16 (1993); Falo et al., Nature Med. 7:649 (1995)), adjuvants (Warren et al., Annu. Rev. Immunol. 4:369 (1986); Gupta et al., Vaccine 11:293 (1993)), liposomes (Reddy et al., J. Immunol. 148:1585 (1992); Rock, Immunol. Today 17:131 (1996)), or, naked or particle absorbed cDNA (Ulmer, et al., Science 259:1745 (1993); Robinson et al., Vaccine 11:957 (1993); Shiver et al., In: Concepts in vaccine development (Kaufmann, ed., p. 423, 1996); Cease & Berzofsky, Annu. Rev. Immunol. 12:923 (1994) and Eldridge et al., Sem. Hematol. 30:16 (1993)). Toxin-targeted delivery technologies, also known as receptor mediated targeting, such as those of Avant Immunotherapeutics, Inc. (Needham, Massachusetts) may also be used.

Vaccine compositions often include adjuvants. Many adjuvants contain a substance designed to protect the antigen from rapid catabolism, such as aluminum hydroxide or mineral oil, and a stimulator of immune responses, such as lipid A, Bortadella pertussis or Mycobacterium tuberculosis derived proteins. Certain adjuvants are commercially available as, e.g., Freund's Incomplete Adjuvant and Complete Adjuvant (Difco Laboratories, Detroit,

MI); Merck Adjuvant 65 (Merck and Company, Inc., Rahway, NJ); AS-2 (SmithKline Beecham, Philadelphia, PA); aluminum salts such as aluminum hydroxide gel (alum) or aluminum phosphate; salts of calcium, iron or zinc; an insoluble suspension of acylated tyrosine; acylated sugars; cationically or anionically derivatized polysaccharides; polyphosphazenes; biodegradable microspheres; monophosphoryl lipid A and quil A. Cytokines, such as GM-CSF, interleukin-2, -7, -12, and other like growth factors, may also be used as adjuvants.

Vaccines can be administered as nucleic acid compositions wherein DNA or RNA encoding one or more of the polypeptides, or a fragment thereof, is administered to a patient. This approach is described, for instance, in Wolff et. al., Science 247:1465 (1990) as well as U.S. Patent Nos. 5,580,859; 5,589,466; 5,804,566; 5,739,118; 5,736,524; 5,679,647; WO 98/04720; and in more detail below. Examples of DNA-based delivery technologies include "naked DNA", facilitated (bupivicaine, polymers, peptide-mediated) delivery, cationic lipid complexes, and particle-mediated ("gene gun") or pressure-mediated delivery (see, e.g., U.S. Patent No. 5,922,687).

For therapeutic or prophylactic immunization purposes, the peptides of the invention can be expressed by viral or bacterial vectors. Examples of expression vectors include attenuated viral hosts, such as vaccinia or fowlpox. This approach involves the use of vaccinia virus, e.g., as a vector to express nucleotide sequences that encode metastatic colorectal cancer polypeptides or polypeptide fragments. Upon introduction into a host, the recombinant vaccinia virus expresses the immunogenic peptide, and thereby elicits an immune response. Vaccinia vectors and methods useful in immunization protocols are described in, e.g., U.S. Patent No. 4,722,848. Another vector is BCG (Bacille Calmette Guerin). BCG vectors are described in Stover et al., Nature 351:456-460 (1991). A wide variety of other vectors useful for therapeutic administration or immunization e.g., adeno and adeno-associated virus vectors, retroviral vectors, Salmonella typhi vectors, detoxified anthrax toxin vectors, and the like, will be apparent to those skilled in the art from the description herein (see, e.g., Shata et al., Mol Med Today 6:66-71 (2000); Shedlock et al., J Leukoc Biol 68:793-806 (2000); Hipp et al., In Vivo 14:571-85 (2000)).

Methods for the use of genes as DNA vaccines are well known, and include placing a metastatic colorectal cancer gene or portion of a metastatic colorectal cancer gene under the control of a regulatable promoter or a tissue-specific promoter for expression in a metastatic colorectal cancer patient. The metastatic colorectal cancer gene used for DNA vaccines can encode full-length metastatic colorectal cancer proteins, but more preferably

encodes portions of the metastatic colorectal cancer proteins including peptides derived from the metastatic colorectal cancer protein. In one embodiment, a patient is immunized with a DNA vaccine comprising a plurality of nucleotide sequences derived from a metastatic colorectal cancer gene. For example, metastatic colorectal cancer-associated genes or sequence encoding subfragments of a metastatic colorectal cancer protein are introduced into expression vectors and tested for their immunogenicity in the context of Class I MHC and an ability to generate cytotoxic T cell responses. This procedure provides for production of cytotoxic T cell responses against cells which present antigen, including intracellular epitopes.

In a preferred embodiment, the DNA vaccines include a gene encoding an adjuvant molecule with the DNA vaccine. Such adjuvant molecules include cytokines that increase the immunogenic response to the metastatic colorectal cancer polypeptide encoded by the DNA vaccine. Additional or alternative adjuvants are available.

In another preferred embodiment metastatic colorectal cancer genes find use in generating animal models of metastatic colorectal cancer. When the metastatic colorectal cancer gene identified is repressed or diminished in metastatic tissue, gene therapy technology, e.g., wherein antisense RNA directed to the metastatic colorectal cancer gene will also diminish or repress expression of the gene. Animal models of metastatic colorectal cancer find use in screening for modulators of a metastatic colorectal cancer-associated sequence or modulators of metastatic colorectal cancer. Similarly, transgenic animal technology including gene knockout technology, e.g., as a result of homologous recombination with an appropriate gene targeting vector, will result in the absence or increased expression of the metastatic colorectal cancer protein. When desired, tissue-specific expression or knockout of the metastatic colorectal cancer protein may be necessary.

It is also possible that the metastatic colorectal cancer protein is overexpressed in metastatic colorectal cancer. As such, transgenic animals can be generated that overexpress the metastatic colorectal cancer protein. Depending on the desired expression level, promoters of various strengths can be employed to express the transgene. Also, the number of copies of the integrated transgene can be determined and compared for a determination of the expression level of the transgene. Animals generated by such methods find use as animal models of metastatic colorectal cancer and are additionally useful in screening for modulators to treat metastatic colorectal cancer.

## Kits for Use in Diagnostic and/or Prognostic Applications

For use in diagnostic, research, and therapeutic applications suggested above, kits are also provided by the invention. In the diagnostic and research applications such kits may include any or all of the following: assay reagents, buffers, metastatic colorectal cancer-specific nucleic acids or antibodies, hybridization probes and/or primers, antisense polynucleotides, ribozymes, dominant negative metastatic colorectal cancer polypeptides or polynucleotides, small molecules inhibitors of metastatic colorectal cancer-associated sequences etc. A therapeutic product may include sterile saline or another pharmaceutically acceptable emulsion and suspension base.

In addition, the kits may include instructional materials containing directions (i.e., protocols) for the practice of the methods of this invention. While the instructional materials typically comprise written or printed materials they are not limited to such. Any medium capable of storing such instructions and communicating them to an end user is contemplated by this invention. Such media include, but are not limited to electronic storage media (e.g., magnetic discs, tapes, cartridges, chips), optical media (e.g., CD ROM), and the like. Such media may include addresses to internet sites that provide such instructional materials.

The present invention also provides for kits for screening for modulators of metastatic colorectal cancer-associated sequences. Such kits can be prepared from readily available materials and reagents. For example, such kits can comprise one or more of the following materials: a metastatic colorectal cancer-associated polypeptide or polynucleotide, reaction tubes, and instructions for testing metastatic colorectal cancer-associated activity. Optionally, the kit contains biologically active metastatic colorectal cancer protein. A wide variety of kits and components can be prepared according to the present invention, depending upon the intended user of the kit and the particular needs of the user. Diagnosis would – typically involve evaluation of a plurality of genes or products. The genes will be selected based on correlations with important parameters in disease which may be identified in historical or outcome data.

## Table 1

Pkey: Unique Eos probeset identifier number

ExAcca: Exemplar Accession number, Genbank accession number

UnigenelD: Unigene number

Unigene Title: Unigene gene title

	Pkey	ExAccn	UnigenelD	Unigene Title	Ratio BS_Mets	Top 3 expressing cell lines
	103989	AA314779	Hs.105484	ESTs; Wealthy similar to LITHOSTATHINE 1	15.77	EB_ceils, HT29_ceils, HMEC
		L15533	Hs.423	pancreatitis-associated protein	11.98	HMEC (total RNA), Fibroblasts 2, Fibroblasts 2
		M97925		defensin; alpha 5; Paneth cell-specific	9.24	Fibroblasts 2, MB231_cells, MB-MDA-453
		D84239		lgG Fc binding protein	8.57	EB_cells, OVCAR_cells, HS578T_cells
		C20785	Hs.30514		7.43	HIMEC (total RNA), HIMEC, Fibroblasts 2
		D11925		KIAA0929 protein Msx2 Interacting nuclea	7.15	HMEC, HMEC (total RNA), Fibroblasts 2
		N79237		ESTs; Weakly similar to long chain fatty	6.72	HIMEC, HIMEC (total RNA), Lu_AD_H23
		L08010	Hs.4158	regenerating islet-derived 1 beta (pancr	6.33	BT474_cells, Fibroblasts 2, MB231_cells
		Y00339		carbonic anhydrase II	6.18	OVCAR_cells, MCF7, 293T_cells
		U33317	Hs.711	defensin; alpha 6; Paneth cell-specific	5.67	Fibroblasts 2, HMEC, HT29_cells
				H sapiens chromosome 19; cosmid F22162	5.14	HS578T_cells, HMEC (total RNA), HMEC
		L21998	Hs.315	mucin 2; intestinal/tracheal	5.1	EB_cells, HT29_cells, MB231_cells
	107652	AA010195	Hs.52642	ESTs; Wealty similar to IIII ALU CLASS F	4.94	HIMEC (total RNA), HIMEC, EB_cells
		AJ498467	Hs.166669	ESTs; Wealty similar to sodium bicarbona	4.77	HS578T_cells, HMEC, Lu_SQ_H520
	110660	H82117	Hs.28043		4.54	HMEC, HS578T_cells, BT474_cells
	111669	R19305	Hs.110347	H sapiens mRNA for alpha integrin bindin	4.52	HMEC, HS578T_cells, Caco2
	124867	R68971	Hs.168500		4.5	HMEC, HMEC (total RNA), HS578T_cells -
	127352	AA416577	Hs.189105	ESTs	4.41	HMEC, HMEC (total RNA), MB-MDA-435s -
		T99385	Hs.18646		4.29	HMEC, EB_cells, HMEC (total RNA)
	128592	AA470056	Hs.113994	ESTs; Weakly similar to alternatively sp	4.18	HMEC (total RNA), HMEC, Fibroblasts 2
•	108092	AA045961	Hs.169355	ESTs; Weakly similar to TRANSCRIPTION RI	E	4.04 HMEC (total RNA), HMEC, Fibroblasts 2
		S72487		endothelial cell growth factor 1 (platel	4.03	EB_cells, HMEC, HMEC (total RNA)
	100572	HG2271		Profilaggrin	4.03	HMEC (total RNA), HMEC, Fibroblasts 2
	115775	AA424030	Hs.46627	ESTs	4.02	HMEC, HMEC (total RNA), EB_cells
		AA346854		fragile X mental retardation; autosomal	4.01	HMEC (total RNA), HMEC, Fibroblasts 2
		R39926		ESTs	3.98	EB_cells, HMEC (total RNA), HMEC
		H85422	Hs.108556	ESTs	3.97	HMEC (total RNA), HMEC, Fibroblasts 2
	101124	L10343		protease inhibitor 3; skin-derived (SKAL	3.89	PC3_cells, RPWE_2, Caco2
		AA424958	Hs.33735	ESTs	3.88	EB_cells, HMEC, HMEC (total RNA)
		U03644		CBF1 Interacting corepressor	3.88	EB_cells, HMEC, HMEC (total RNA)
	131739	AA449749		ESTs; Highly similar to secreted apoptos	3.87	HS578T_cells, MB-MDA-435s, HT29_cells
	116311	AA490469	Hs.48752	ESTS	3.84	HS578T_cells, HMEC, LNCaP_cells
	134174	U05259	Hs.79630	CD79A antigen (immunoglobutin-associated	3.83	DU145_cells, Lu_AD_H23, MB231_cells
	106753	AA476944	Hs.7331	ESTs	3.82	LNCaP_cells, Lu_SC_H345, DU145_cells
	104842	AA039854	Hs.8065	H sapiens mRNA full length insert cDNA c	3.78	HS578T_cells, A549_cells, CALU6_cells
	129161		Hs.181780		3.75	HMEC (total RNA), HMEC, BT474_cells
			Hs.252808	ESTs; Highly similar to pulmonary surfac	3.75	293T_cells, PRSC_con, HT29_cells
		HG2149		Mucin (Gb:M57417)	3.75	HMEC (total RNA), HMEC, Fibroblasts 2
	116857		Hs.186550	ESTs	3.73	HS578T_cells, 293T_cells, HMEC
	113222	T59670	Hs.10615	ESTs	3.7	HMEC, HS578T_cells, Cacc2
	118768		Hs.94304		3.68	HMEC, HS578T_ceils, OVCAR_ceils
			Hs.122576		3.66	EB_cells, MCF7, LNCaP_cells
		M58459		ribosomal protein S4; Y-linked	3.62	DU145_cells, RPWE_2, A549_cells
			Hs.187571		3.6	HMEC (total RNA), Fibroblasts 2, Fibroblasts 2 -
		AA007312	Hs.183852	ESTs, Wealdy similar to polymerase [H.sa	3.58	HMEC (total RNA), HMEC, Fibroblasts 2
		C21382	HS.99766	H saplens mRNA; cDNA DXFZp564J0323 (fro		3.56 HMEC, HMEC (total RNA), EB_cells
	127083		Hs.91608		3.53	HMEC (total RNA), HMEC, Fibroblasts 2
	102329			percodsome receptor 1	3.51	HMEC, HMEC (total RNA), EB_cells
	117882			ESTs; Weakly similar to coded for by C.	3.47	HMEC (total RNA), HMEC, EB_cells
	126405		Hs.122489		3.46	LNCaP_cells, MCF7, DU145_cells
				small glutamine-rich tetratricopeptide r	3.45	EB_cells, HMEC, HMEC (total RNA)
	111418			ESTs	3.43	HS578T_cells, EB_cells, Lu_AD_H23
		AA194075	HS.99908	nuclear receptor coactivator 4	3.4	HS578T_cells, EB_cells, HMEC
	108/10	AA121960		zm24g9.s1 Štratagene pancreas (#93728) H		wa . I tura tura a chim
	40040-	1 10F040*	1)- OF400	mRNA seq	3.4	EB_cells, HMEC, HMEC (total RNA)
			MS.20199	ESTs; Highly similar to match to ESTs AA	3.38	EB_cells, LNCaP_cells, RPWE_2
	103448			lipocalin 2 (oncogene 24p3)	3.38	PC3_cells, EB_cells, HT29_cells
			MS.155597	D component of complement (adipsin)	3.37	PRSC_con, EB_cells, Lu_AD_H23
	112309			yj76d5.s1 Soares breast 2NbHBst H saplen	3.36	EB_cells, HMEC, HMEC (total RNA)
	103211			polymeric immunoglobulin receptor	3.35	MB231_cells, HT29_cells, Lu_SC_H69
			Hs.191466		3.21	EB_cells, HMEC, HMEC (total RNA)
				activating transcription factor 6	3.19	HMEC (total RNA), HMEC, Lu_AD_H23
		T86945		ESTS	3.18	HMEC, MB231_cells, Caco2
	103029	X54489	Hs.789	GRO1 oncogene (melanoma growth stimulati	3.16	Lu_LC_H460, PC3_cells, Fibroblasts 2

109374	AA218727	Hs.210785	ESTs; Highly similar to (but) [H.saptens]	3.13	Caco2, A549_cells, MB231_cells
	R55750	Hs.26455		3.13	HS578T_cells, HMEC, MB231_cells
	T83964	Hs.15400		3.11	HMEC (total RNA), HMEC, EB_cells
	R69824	Hs.28313		3.11	HIMEC, HIMEC (total RNA), EB_cells
	N50782	Hs.231713		3.11	HIMEC, HS578T_cells, Cacco2
	T87826	Hs.164480	ESIS	3.1	HS578T_cells, EB_cells, MB-MDA-435s
10/0/2	AABUSTIS		H sapiens mRNA; cDNA DKFZp586N0318 (fi		3.1 Lu_SC_H69, MB-MDA-453, MB231_cells
	N64583	Hs.182385		3.05	HMEC, HMEC, LNCaP_cells
	N38970	Hs.194214		3.04	HMEC, HMEC (total RNA), Fibroblasts 2
	L05072 H75323		interferon regulatory factor 1	3.04	EB_cells, PRSC_con, DU145_cells
	W90108	Hs.167614		3.03	HS578T_cells, HMEC (total RNA), HMEC
	AA297581	TIS. 10040	KIAA0187 gene product	3.03	HMEC, HMEC (total RNA), EB_cells
	AA490107	Ue 24752	EST113160 Gall bladder I H sapiens cDNA	3.02	HMEC, LU_AD_H23, LU_SQ_H520
	R96306	Hs.191290		3.02	EB_cells, HMEC (total RNA), HMEC
	T93337		ESTs; Highly similar to LRR FLH Intera	3.02 3.02	EB_cells, HMEC, Lu_AD_358
	AA007230	Hs.95026	ESTs	3.02	HMEC (total RNA), EB_cells, HMEC Lu_SC_H345, HS578T_cells, Lu_LC_H460
	S75256		HNL=neutrophil lipocalin [human, ovarian	3.01	PC3_cels, EB_cels, HT29_cels
	HG315T		Beta-1-Glycoprotein 11, Pregnancy-Specif	3.01	Fibroblasts 2, Lu_AD_H23, MB-MDA-435s
	U53445	Hs.15432	downregulated in ovarian cancer 1	2.98	PRSC_con, Fibroblasts 2, HMEC
	AA416615	Hs.98242	ESTs	2.94	HMEC, HS578T_cells, BT474_cells
	AA047055			2.94	HS578T_cells, EB_cells, HMEC
104916	AA056588	Hs.16542	ESTs	2.93	HMEC (total RNA), Fibroblasts 2, HMEC
	H05961	Hs.26331		2.92	HMEC, MB231 cells, HS578T cells
104586	R78309	Hs.20787		2.92	Caco2, Lu_AD_358, Lu_AD_358
101236	L29433		coagulation factor X	2.91	HMEC, HS578T_cells, Cacc2
134749	L10955	Hs.89485	carbonic anhydrase IV	2.9	BT474_cells, MCF7, HIMEC (total RNA)
	R07294	Hs.109108	solute carrier family 22 (organic cation	2.9	HMEC, HMEC (total RNA), MB-MDA-435s
	Z38431	Hs.27038	ESTs; Moderately similar to X-linked ret	2.89	HIMEC, HIMEC (total RNA), EB cells
	AA024687			2.88	HS578T_cells, MB231_cells, HMEC
	R10759	Hs.15177	ESTs	2.88	HS578T_cells, Lu_LC_H460, PRSC_con
	AA282433		H saplens p60 katanin mRNA; complete cds	2.87	EB_ceils, MB-MDA-435s, RPWE_2
129881	AA458952	Hs.197728	ESTs; Weakly similar to ZINC FINGER PROT		EB_ceils, PC3_ceils, HMEC
	H65459	Hs.38323		2.85	HMEC, Caco2, HS578T_cells
	X03068	Hs.73931	major histocompatibility complex; class	2.82	MB-MDA-435s, BT474_cells, HT29_cells
	C00810		guanine nucleotide binding protein (G pr	2.82	LNCaP_cells, Lu_SC_H345, EB_cells
	H05741	Hs.101643		2.82	HMEC, HS578T_cells, HT29_cells
	Al247422 R15413			2.82	HS578T_cells, Lu_LC_H460, Lu_SC_H69
	Z28861	ns. 1049 19	ESTs; Highly similar to PROTEIN KINASE C		MB231_colls, Lu_AD_H23, RPWE_2
120013	220001		HSBA7E032 STRATAGENE Human skeletal i cDNA clone A7E03, mRNA seq.		INTO In AD 100 INTO A LIBERT
11441R	AA011383	He 177313		2.77 2.77	HMEC, Lu_AD_H23, HMEC (total RNA)
	AA228030			2.77	HS578T_cells, EB_cells, MCF7
	H73017		ESTs; Weakly similar to atrophin-1 relat	2.76	EB_cells, Fibroblasts 2, HMEC (total RNA) Fibroblasts 2, PRSC_con, DU145_cells
119347			yc10d08.s1 Stratagene lung (#937210) H s	2.76	EB_ceis, Lu_AD_H23, Lu_SC_H69 .
126219		Hs.141438	ESTs; Moderately similar to similar to C	2.76	Lu_AD_H23, HMEC (total RNA), MB-MDA-435s
125426	R43963	Hs.169355	ESTs; Weakly similar to TRANSCRIPTION RE		2.75 HIMEC, HIMEC (total RNA), Lu_SC_H69
103005	X52008		glycine receptor; alpha 2	2.74	HS578T_cells, HMEC, MB-MDA-453
109170	AA180352			2.74	Fibroblasts 2, HMEC (total RNA), MB-MDA-435s
101125		Hs.82749	transmembrane 4 superfamily member 2	2.73	Lu_LC_H460, 293T_cells, EB_cells
130656			KIAA0699 protein	2.73	HMEC (total RNA), HMEC, Fibroblasts 2
	AA476728		ESTs	2.72	HMEC, EB_cells, HMEC (total RNA)
	AA055978		ESTs; Wealthy similar to PHOSPHOLEMIMAN	PR	2.71 Lu_SC_H345, Lu_SC_H69, 293T_cells
111644	R16539	Hs.223649	EST; Moderately similar to Cd-7 Metallo	2.71	EB_cells, HMEC, HMEC (total RNA)
133719	AAU33/90	Hs.75736	apolipoprotein D	2.71	Caco2, Fibroblasts 2, MB-MDA-435s
	AA582324			2.7	HIMEC, HS578T_cells, HIMEC (total RNA)
113321	AA210719	Hs.13759		2.69	HIMEC (total RNA), Fibroblasts 2, PRSC_con
135003				2.68	MB-MDA-435s, HS578T_cells, Lu_SC_H59
103650		Hs.92832		2.68	HS578T_cells, EB_cells, PRSC_con
111507		Hs.191218		2.68	HMEC, HS578T_cells, PRSC_con
117084		Hs.41829		2.67	HMEC (total RNA), HMEC, EB_cells
		He 176402		2.67 2.67	HS578T_cells, HMEC, MB231_cells
132850	RR9741	Hs 58215		2.67 2.66	DU145_cells, HS578T_cells, MB-MDA-435s HS578T_cells, EB_cells, 293T_cells
	AA416770	Hs 98255		2.61	HMEC (total RNA), HMEC, EB_cells
124230				26 26	HMEC (total RNA), HMEC, Fibroblasts 2
114174			mam 44 1 4 4 4	2.58	Caco2, MB-MDA-453, A549_cells
128469	T23724	Hs.258677		2.57	Lu_LC_H460, Lu_SC_H69, MB-MDA-435s
117399				2.57 ·	HMEC, HMEC (total RNA), EB_cells
	AA460551	Hs.184860		2.57	HS578T_cells, EB_cells, HT29_cells
119817	W74257	Hs.159690	ESTS	2.57	HMEC, HMEC (total RNA), Lu SC H69
114445	AA019594	Hs.250493	ESTs; Weakly similar to KIAA0390 [H.saoi	2.56	HMEC, HT29_cells, Lu_LC_H460
120651	AA287286	Hs.99657	ESTs	2.55	HMEC, HMEC (total RNA), Fibroblasts 2
105707	AA291012	Hs.37617		2.55	HMEC (total RNA), EB_cells, BT474_cells
128483	T58588	Hs.5148	FLN29 gene product	2 54	HMEC, HS578T_cells, MB231_cells
125890	AA448739	Hs.116708	ESTs; Weakly similar to HYPOTHETICAL PRO	)	2.54 HMEC (total RNA), HMEC, OVCAR cells

	134764	M74715	Hs.89560	iduronidase; alpha-L-	2.54	BT474_cells, PRSC_con, HT29_cells
	113404			Immunoglobulin superfamily, member 4	2.54	Caco2, HS578T_cells, HMEC
		AA423854			2.54	BT474_ceils, MB-MDA-435s, HMEC
		M19684		protease inhibitor 1 (alpha-1-antitrypsi	2.54	HMEC, HT29_cells, HMEC (total RNA)
		X72755		monokine induced by gamma interferon	2.53	Fibroblasts 2, MB231_cells, HMEC (total RNA)
•		AA489716		DKFZP586L151 protein	2.53	EB_cells, HMEC, HMEC (total RNA)
		AA075124		zm86a1.s1 Stratagene ovarian cancer (#93		
				IMAGE:544776 3', mRNA seq	2.52	HIMEC (total RNA), HIMEC, HS578T_cells
	119508	W37895	Hs.45519	ESTs	2.52	Lu_SC_H69, CALU6_cells, 293T_cells
		F13763	Hs.19827	ESTs	2.52	PRSC_log, PRSC_con, HS578T_cells
		NB9775		zinc finger protein 36 (KOX 18)	2.51	HMEC, HS578T_cells, HT29_cells
	130860	U66081		protease; serine; 1 (trypsin 1)	2.51	OVCAR_cells, MB231_cells, PC3_cells
	105725	AA292228	Hs.199791	STAT Induced STAT Inhibitor 3	2.51	HS578T_ceils, HT29_ceils, HMEC
		H48579	Hs.36275		2.51	HS578T_cells, Caco2, Lu_LC_H460
	123762	AA610013	Hs.244553	EST	2.51	HIMEC (total RNA), HIMEC, Fibroblasts 2
		AA034096		zi06f05.r1 Soares_fetal_fiver_spleen_1NF		
				IMAGE:430017 5', mRNA seq.	2.5	Lii_AD_H23, H\$578T_cells, Lii_AD_358
	129751	AA346065	Hs.111286	KIAA0714 protein	2.5	HIMEC, HS578T_cells, Fibroblasts 2
	121704	AA418743	Hs.98306	ESTs	2.5	EB_cells, HMEC (total RNA), HMEC
	112595	R77783	Hs.22404	protease; serine; 12 (neurotrypsin; moto	2.5	Fibroblasts 2, EB_cells, PRSC_con
	108499	AA083103		zn1b12.s1 Stratagene hNT neuron (#937233		
				IMAGE:5477 3', mRNA seq	2.5	LNCaP_cells, MB-MDA-453, HMEC
	131968	AA151333	Hs.36029	ESTs; Highly similar to basic helix-loop	2.5	Fibroblasts 2, A549_cells, 293T_cells
	112665	R85661	Hs.221447	ESTs	2.48	Lu_AD_H23, HMEC, Lu_LC_H460
	115764	AA421562	Hs.91011	anterior gradient 2 (Xenepus laevis) hom	2.48	EB_cells, Caco2, MCF7
	105959	AA405540	Hs.7001	ESTs	2.48	OVCAR_cells, BT474_cells, Cacc2
	125804	R79519	Hs.16899	ESTs	2.48	HIMEC (total RNA), EB_cells, HIMEC
	110102	H16681	Hs.180950	guanine nucleotide binding protein (G pr	2.46	HS578T_cells, HMEC, OVCAR_cells
	104680	AA009809	Hs.37599	ESTs	2.46	HMEC, HS578T_cells, Caco2
	132339	D80030	Hs.45127	chondroitin sulfate proteoglycan 5 (neur	2.45	OVCAR_cells, 293T_cells, HMEC (total RNA)
			Hs.193663	ESTs; Weakly similar to till ALU SUBFAMI	2.45	Lu_SQ_H520, Lu_AD_H23, Lu_SC_H69
		M96843		inhibitor of DNA binding 2; dominant neg	244	MB-MDA-453, 293T_cells, Caco2
	128731	AF005271	Hs.104555	neuropeptide FF-amide peptide precursor	2.43	HIMEC, HIMEC (total RNA), EB_cells
	106670	AA461174	Hs.5943	ESTs	2.43	EB_cells, HS578T_cells, Lu_SC_H69
	119306	T26914	Hs.132785	EAP30 subunit of ELL complex	2.43	EB_cells, HMEC (total RNA), HMEC
	133507	X74295	Hs.74369	integrin; alpha 7	2.42	Fibroblasts 2, Caco2, EB_cells
	125713	AA367905		transferrin receptor (p90; CD71)	2.41	HS578T_cells, Fibroblasts 2, Lu_AD_H23
	107438	W27841		ESTs; Weakly similar to B0025.2 [C.elega	2.41	HMEC, HS578T_cells, MB231_cells
	101784	M83186	Hs.114346	cytochrome c oxidase subunit VIIa polype	2.41	Fibroblasts 2, PRSC_con, PRSC_log
	134578	AA194724	Hs.182418	endonuclease G .	2.4	EB_cells, HMEC, Lu_AD_H23
		T95642	Hs.189759		2.4	EB_cells, A549_cells, HS578T_cells
	127087	AA380418	Hs.88012	SHP2 interacting transmembrane adaptor	2.4	HMEC, HMEC (total RNA), EB_cells
	113118	T47906	Hs.220512	ESTs	2.39	MB-MDA-435s, HS578T_cells, HMEC
	104791	AA029046	Hs.30377	ESTs; Moderately similar to cAMP inducib	2.39	LNCaP_cells, OVCAR_cells, PC3_cells
	115833	AA428269	Hs.125035		2.38	Caco2, LNCaP_cells, CALUB_cells
		R77451	Hs.4245	ESTs; Weakly similar to similar to S. ce	2.38	HMEC, HMEC (total RNA), EB_cells
				ESTs	2.38	HS578T_cells, HMEC, PRSC_con
		S45630	Hs.1940	crystallin; alpha B	2.38	HS578T_cells, OVCAR_cells, Lu_LC_H460
		D82422	Hs.5944	ESTs	2.37	Caco2, MB-MDA-453, HT29_cells
			Hs.26570		2.35	LNCaP_cells, 293T_cells, EB_cells
		W27770	Hs.258721		2.35	HMEC (total RNA), HMEC, HT29_cells
			Hs.189324	ESTS	2.34	HMEC (total RNA), HMEC, EB_cells
	119343	T62873		yc3d2.s1 Stratagene lung (#93721) H sapi		
				to contains Alu repetitive element, mR	2.34	HS578T_cells, Lu_SC_H69, HT29_cells
				H saplens mRNA; chromosome 1 specific tr	2.33	Lu_AD_H23, HMEC (total RNA), BT474_cells =
		T69384	Hs.68398	period (Drosophila) homolog 1	2.33	HMEC, HMEC (total RNA), MB231_cells
		A1375276	Hs.158732		2.33	HMEC (total RNA), EB_cells, HMEC
		AJ421866		ribophorin II	2.33	Lu_AD_H23, HMEC (total RNA), HMEC
		H23927	Hs.222381		2.33	HS578T_cells, HMEC, Lu_LC_H460
		W86471		hypocretin (orexin) receptor 2	2.32	HMEC, HMEC (total RNA), EB_cells
		AI073357		H sapiens clone 23570 mRNA seq	2.32	MB231_cells, HMEC (total RNA), HMEC
		W70279		ESTs; Weakly similar to 15-HYDROXYPROS		2.32 HMEC, HS578T_cells, MB231_cells
	108874	AA134112	Hs.107187	H saplans DNA seq from cosmid ICK0721Q o		
				L12 LIKE protein in an intron of the HS	2.32	Caco2, PRSC_con, LNCaP_cells
	127368	AA434362	Hs.193326	E018	2.32	HMEC (total RNA), HS578T_cells, HMEC
			Hs.104311		2.32	HMEC (total RNA), HMEC, MB-MDA-435s
		W80852		KDEL (Lys-Asp-Glu-Leu) endoplasmic refic	2.32	Fibroblasts 2, HS578T_cells, MB-MDA-435s
		J02947	Hs.2420	superoxide dismutase 3; extracellular	2.32	PRSC_con, EB_cells, Lu_AD_358
		X76057	Hs.75694		2.31	293T_cells, LNCaP_cells, RPWE_2
		AA039331		ESTs; Wealty similar to GAGE-7 [H.sapien	2.31	Cacc2, HS578T_cells, HMEC
	113186	T56048	Hs.189674		2.31	HMEC, Fibroblasts 2, HMEC (total RNA)
	113462	T86826	Hs.142528		2.31	PC3_cells, HS578T_cells, HMEC
			Hs.33619	E513	2.3	HMEC (total RNA), HMEC, OVCAR_cells
	129667	Y00097		annexin A6	2.3	PRSC_log, PRSC_con, HS578T_cells
	111573	R10305	Hs.185683		2.3	HMEC, HMEC (total RNA), EB_cells
	117523	N32626	H\$.145532	ESTs; Weakly similar to Gag polyprotein	2.29	EB_cells, Fibroblasts 2, HS578T_cells

44EE40					
113340	AA349954	Hs.56281	ESTs; Wealty similar to ASB-1 protein [H	2.29	Fibroblasts 2, BT474_cells, MB231_cells
	M55621		mannosyl (alpha-1,3-)-glycoprotein bela-	2.29	PRSC_con, RPWE_2, PRSC_log
	Y13620		B-cell CLL/lymphoma 9	2.28	Lu SC H69, Lu AD 358, Lu AD H23
	Al337294				
				2.28	HS578T_cells, 293T_cells, CALU6_cells
	D31111		ESTs; Highly similar to NY-REN-50 antige	2.27	EB_cells, DU145_cells, HT29_cells
	R55470	Hs.11067		2 <i>.2</i> 7	MB-MDA-453, LNCaP_cells, OVCAR_cells
	M97496	Hs.778	guanylate cyclase activator 1B (retina)	2 <i>.2</i> 7	HT29_cells, BT474_cells, Cacc2
100760	HG3576		Major Histocompatibility Comptex, Class	2.26	MB-MDA-435s, MB231_cells, BT474_cells
	U39412	Hs.75932		2.26	LNCaP_cells, MB-MDA-453, Caco2
106142	AA424590	Hs.239631	Golgi transport complex protein (90 kDa)	2.26	HMEC, HS578T_cells, Caco2
	M22430	Hs.76422		2.26	LNCaP_cells, BT474_cells, Caco2
	T55340	Hs.208238		2.26	HS578T_cells, EB_cells, HMEC
	AA627122			2.25	
			EST's; Wealty similar to Wiscott-Althich		LU_SQ_H520, LU_LC_H460, LU_SC_H69
				2.25	MB-MDA-435s, Fibroblasts 2, HMEC (total RNA)
	C00476	Hs.24395		2.25	Lu_SQ_H520, BT474_cells, Fibroblasts 2
	N91481	Hs.54713		2.25	HMEC (total RNA), HMEC, MCF7
	AA579831			2.24	HS578T_cells, EB_cells, HMEC
	U59286	Hs.103982	small inducible cytolone subfamily B (Cy	2.24	HMEC, HS578T_cells, Fibroblasts 2
113674	T96374	Hs.5753	Inositol(myo)-1(or 4)-monophosphatase 2	2.24	A549_cells, DU145_cells, Lu_AD_358
133085	M73720	Hs.646	carboxypeptidase A3 (mast cell)	2.24	HS578T_cells, Fibroblasts 2, HT29_cells
106017	AA411882	Hs.26268	ESTS	2.24	MB-MDA-453, OVCAR_cells, 293T_cells
100582	HG2348		Peptide Yy	2.24	HMEC, HS578T_cells, HMEC (total RNA)
	N66357	Hs 89761	ATP synthase; H+ transporting; mitochond	2.23	Lu_SQ_H520, LNCaP_cells, Lu_AD_H23
	U57627		oculocerebrorenal syndrome of Lowe	2.23	293T_cells, EB_cells, LNCaP_cells
	AA452788	163201770	zx39g11.r1 Soares_total_fetus_Nb2HF8_9w	223	2331_CBIS, ED_CBIS, LINCAT_CBIS
141 001	74402100			0.00	LICETOT DOME O INCOM-I-IDMA
42E200	A A 400000	Li- 02070	IMAGE:788900 5', mRNA seq.	2.23	HS578T_cells, RPWE_2, HMEC (total RNA)
	AA402930		ESTS	2.23	HS578T_cells, 293T_cells, OVCAR_cells
	AA278850		ESTs; Wealdy similar to IIII ALU SUBFAMI	2.23	BT474_cells, BT474_cells, MB231_cells
103812	AA13/10/		ESTs; Weakly similar to NFAT1-A [M.muscu		Lu_SC_H345, Lu_AD_H23, PRSC_con
	H87171	Hs.52170		2.22	Fibroblasts 2, Lu_LC_H460, HMEC (total RNA)-
114607	AAD79342	Hs.129057	breast carcinoma amplified seq 1	2.22	BT474_cells, HT29_cells, HT29_cells
	U29091	Hs.7833	selenium binding protein 1	2.22	LNCaP_cells, MB-MDA-453, BT474_cells
111069	N58461	Hs.22036	ESTs	2.22	HMEC, Lu_SC_H345, HS578T_cells
129048	L27670	Hs.108287	Intercellular adhesion molecule 4; Lands	2.21	Lu_AD_H23, HS578T_cells, Lu_SQ_H520
	T52700	Hs.110044		2.2	Caco2, MB-MDA-453, HT29_cells
	F05063	Hs.251736		2.2	
	N62263	Hs.48501		22	HS578T_cells, BT474_cells, 293T_cells
	Al149662				HS578T_cells, BT474_cells, MB231_cells
		Hs.143590		2.19	BT474_cells, CALU6_cells, MB231_cells
	W33178	Hs.26912		2.19	HMEC, HMEC (total RNA), Fibroblasts 2
100097					
	N OULLE		H sapiens Angelman Syndrome Gene, E6-AP		
			n sapiens Angelman Syndrome Gene, E6-AP from promoter P1, 5'UTR	2.19	HS578T_cells, CALU6_cells, 293T_cells
	AA176800	Hs.73452	from promoter P1, 5UTR ESTs		
109151			from promoter P1, 5UTR	2.19	HS578T_cells, CALU6_cells, 293T_cells
109151 135368	AA176800 AA086057	Hs.9964	from promoter P1, 5UTR ESTs	2.19 2.19	HS578T_cells, CALU6_cells, 293T_cells CALU6_cells, Lu_AD_H23, Lu_SC_H69 OVCAR_cells, A549_cells, Lu_AD_H23
109151 135368 109016	AA176800 AA086057	Hs.9964 Hs.58069	from promoter P1, 5UTR ESTs ribosomal protein; mitochondriat; S12 ESTs; Highly similar to type II cAMP-dep	2.19 2.19 2.19 2.19	HS578T_cells, CALU6_cells, 293T_cells CALU6_cells, Lu_AD_H23, Lu_SC_H69 OVCAR_cells, A549_cells, Lu_AD_H23 HS578T_cells, BT474_cells, A549_cells
109151 135368 109016 124300	AA176800 AA086057 AA156936 H92575	Hs.9964 Hs.58069 Hs.105959	from promoter P1, 5UTR ESTs ESTs highly similar to type II cAMP-dep ESTs; Wealdy similar to IIII ALU SUBFAMI	2.19 2.19 2.19 2.19 2.18	HS578T_cells, CALU6_cells, 293T_cells CALU6_cells, Lu_AD_H23, Lu_SC_H69 OVCAR_cells, A549_cells, Lu_AD_H23 HS578T_cells, BT474_cells, A549_cells Lu_AD_358, Lu_SC_H69, Lu_SC_H345
109151 135368 109016 124300 123450	AA176800 AA086057 AA156936 H92575 AA598913	Hs.9964 Hs.58069 Hs.105959 Hs.111207	from promoter P1, 5UTR ESTs ribosomal protein; mitochondrial; S12 ESTs; Highly similar to type II cAMP-dep ESTs; Wealdy similar to IIII ALU SUBFAMI ESTS	2.19 2.19 2.19 2.19 2.18 2.18	HS578T_cells, CALU6_cells, 293T_cells CALU6_cells, Lu_AD_H23, Lu_SC_H69 OVCAR_cells, A549_cells, Lu_AD_H23 HS578T_cells, BT474_cells, A549_cells Lu_AD_358, Lu_SC_H69, Lu_SC_H345 HMEC (total RNA), HMEC, MB-MDA-435s
109151 135368 109016 124300 123450 117435	AA176800 AA086057 AA156936 H92575 AA598913 N27628	Hs.9964 Hs.58069 Hs.105959 Hs.111207	from promoter P1, 5UTR ESTS nbosomal protein; mitochondrial; S12 ESTs; Highly similar to type II cAMP-dep ESTs; Wealdy similar to IIII ALU SUBFAMI ESTS yw50b08.s1 Weizmann Offactory Epithelium	2.19 2.19 2.19 2.19 2.18 2.18 2.18	HS578T_cells, CALU6_cells, 293T_cells CALU6_cells, Lu_AD_H23, Lu_SC_H69 OVCAR_cells, A549_cells, Lu_AD_H23 HS578T_cells, BT474_cells, A549_cells Lu_AD_338, Lu_SC_H69, Lu_SC_H345 HMEC (total RNA), HMEC, MB-MDA-435s LNCaP_cells, DU145_cells, Lu_SQ_H520
109151 135368 109016 124300 123450 117435 119860	AA176800 AA086057 AA156936 H92575 AA598913 N27628 W80709	Hs.9964 Hs.58069 Hs.105959 Hs.111207 Hs.58485	from promoter P1, 5UTR ESTS ribosomal protein; mitochondrial; S12 ESTS; Highly similar to type II cAMP-dep ESTS; Wealdy similar to IIII ALU SUBFAMI ESTS yw50b08.s1 Weizmann Olfactory Epithelium ESTS	2.19 2.19 2.19 2.19 2.18 2.18 2.18 2.18	HS578T_cells, CALU6_cells, 293T_cells CALU6_cells, Lu_AD_H23, Lu_SC_H69 OVCAR_cells, A549_cells, Lu_AD_H23 HS578T_cells, BT474_cells, A549_cells Lu_AD_358, Lu_SC_H69, Lu_SC_H345 HMEC (total RNA), HMEC, MB-MDA-435s LNCaP_cells, DU145_cells, Lu_SQ_H520 HS578T_cells, MB221_cells, Caco2
109151 135368 109016 124300 123450 117435 119860 123833	AA176800 AA086057 AA156936 H92575 AA598913 N27628 W80709 AA620717	Hs.9964 Hs.58069 Hs.105959 Hs.111207 Hs.58485 Hs.112889	from promoter P1, 5UTR ESTS ribosomal protein; mitochondrial; S12 ESTS; Highly similar to type II cAMP-dep ESTS; Wealdy similar to IIII ALU SUBFAMI ESTS yw50b08.s1 Weizmann Offactory Epithelium ESTS ESTS	2.19 2.19 2.19 2.19 2.18 2.18 2.18 2.18 2.18	HS578T_cells, CALU6_cells, 293T_cells CALU6_cells, Lu_AD_H23, Lu_SC_H69 OVCAR_cells, A549_cells, Lu_AD_H23 HS578T_cells, BT474_cells, A549_cells Lu_AD_358, Lu_SC_H69, Lu_SC_H345 HMEC (total RNA), HMEC, MB-MDA-435s LNCaP_cells, DU145_cells, Lu_SQ_H520 HS578T_cells, MB231_cells, Caco2 Lu_AD_H23, Lu_SQ_H520, Lu_AD_358
109151 135368 109016 124300 123450 117435 119860 123833 107938	AA176800 AA086057 AA156936 H92575 AA598913 N27628 W80709 AA620717 AA029446	Hs.9964 Hs.58069 Hs.105959 Hs.111207 Hs.58485 Hs.112889 Hs.53115	from promoter P1, 5UTR ESTS ESTS inbosomal protein; mitochondriat; S12 ESTs; Highly similar to type II cAMP-dep ESTs; Wealdy similar to IIII ALU SUBFAMI ESTS yw5008.s1 Weizmann Olfactory Epithelium ESTS ESTS ESTS	2.19 2.19 2.19 2.19 2.18 2.18 2.18 2.18 2.18 2.18 2.18	HS578T_cells, CALU6_cells, 293T_cells CALU6_cells, Lu_AD_H23, Lu_SC_H69 OVCAR_cells, A549_cells, Lu_AD_H23 HS578T_cells, B7474_cells, A549_cells Lu_AD_358, Lu_SC_H69, Lu_SC_H345 HMEC (total RNA), HMEC, MB-MDA-435s LNCaP_cells, DU145_cells, Lu_SC_H520 HS578T_cells, MB231_cells, Caco2 Lu_AD_H23, Lu_SC_H520, Lu_AD_358 Caco2, 293T_cells, 293T_cells
109151 135368 109016 124300 123450 117435 119860 123833 107938 119380	AA176800 AA086057 AA156936 H92575 AA598913 N27628 W80709 AA620717 AA029446 T83659	Hs.9964 Hs.58069 Hs.105959 Hs.111207 Hs.58485 Hs.112889 Hs.53115 Hs.184407	from promoter P1, 5UTR ESTs ribosomal protein; mitochondrial; S12 ESTs; Highly similar to type II cAMP-dep ESTs; Wealdy similar to IIII ALU SUBFAMI ESTs yw50b08.s1 Welzmann Offactory Epithelium ESTs ESTs ESTs ESTs	2.19 2.19 2.19 2.19 2.18 2.18 2.18 2.18 2.18 2.18 2.18	HS578T_cells, CALU6_cells, 293T_cells CALU6_cells, Lu_AD_H23, Lu_SC_H69 OVCAR_cells, A549_cells, Lu_AD_H23 HS578T_cells, B7474_cells, A549_cells Lu_AD_358, Lu_SC_H69, Lu_SC_H345 HMEC (total RNA), HMEC, MB-MDA-435s LNCaP_cells, DU145_cells, Lu_SQ_H520 HS578T_cells, MB231_cells, Caco2 Lu_AD_H23, Lu_SQ_H520, Lu_AD_358 Caco2, 293T_cells, 293T_cells Lu_AD_H23, Lu_AD_358, PRSC_con
109151 135368 109016 124300 123450 117435 119860 123833 107938 119380 114066	AA176800 AA086057 AA156936 H92575 AA598913 N27628 W80709 AA620717 AA029446 T83659 Z38152	Hs.9964 Hs.58069 Hs.105959 Hs.111207 Hs.58485 Hs.112889 Hs.53115 Hs.184407 Hs.26920	from promoter P1, 5UTR ESTS ribosomal protein; mitochondrial; S12 ESTs; Highly similar to type II cAMP-dep ESTs; Weakly similar to IIII ALU SUBFAMI ESTS yw50b08.s1 Weizmann Offactory Epithelium ESTs ESTs ESTs ESTs ESTs	2.19 2.19 2.19 2.18 2.18 2.18 2.18 2.18 2.18 2.17 2.17 2.16 2.15	HS578T_cells, CALU6_cells, 293T_cells CALU6_cells, Lu_AD_H23, Lu_SC_H69 OVCAR_cells, A549_cells, Lu_AD_H23 HS578T_cells, BT474_cells, A549_cells Lu_AD_358, Lu_SC_H69, Lu_SC_H345 HMEC (total RNA), HMEC, MB-MDA-435s LNCaP_cells, DU145_cells, Lu_SQ_H520 HS578T_cells, MB231_cells, Caco2 Lu_AD_H23, Lu_SQ_H520, Lu_AD_358 Caco2, 293T_cells, 293T_cells Lu_AD_H23, Lu_AD_358, PRSC_con HMEC (total RNA), HMEC, EB_cells
109151 135368 109016 124300 123450 117435 119860 123833 107938 119380 114066 128748	AA176800 AA086057 AA156936 H92575 AA598913 N27628 W80709 AA620717 AA029446 T83659 Z38152 T59001	Hs.9964 Hs.58069 Hs.105959 Hs.111207 Hs.58485 Hs.112889 Hs.53115 Hs.184407 Hs.26920 Hs.10475	from promoter P1, 5UTR ESTS ribosomal protein; mitochondrial; S12 ESTS; Highly similar to type II cAMP-dep ESTS; Wealdy similar to IIII ALU SUBFAMI ESTS yw50b08.s1 Weizmann Olfactory Epithelium ESTS ESTS ESTS ESTS ESTS ESTS	2.19 2.19 2.19 2.18 2.18 2.18 2.18 2.18 2.17 2.16 2.17 2.16 2.15	HS578T_cells, CALU6_cells, 293T_cells CALU6_cells, Lu_AD_H23, Lu_SC_H69 OVCAR_cells, A549_cells, Lu_AD_H23 HS578T_cells, BT474_cells, A549_cells Lu_AD_388, Lu_SC_H69, Lu_SC_H345 HMEC (total RNA), HMEC, MB-MDA-435s LNCaP_cells, DU145_cells, Lu_SQ_H520 HS578T_cells, MB231_cells, Caco2 Lu_AD_H23, Lu_SQ_H520, Lu_AD_358 Caco2, 293T_cells, 293T_cells Lu_AD_H23, Lu_AD_358, PRSC_con HMEC (total RNA), HMEC, EB_cells HMEC, HT29_cells, MB231_cells
109151 135368 109016 124300 123450 117435 119860 12383 107938 119380 114066 128748 130414	AA176800 AA086057 AA156936 H92575 AA598913 N27628 W80709 AA620717 AA029446 T83659 Z38152 T59001 M21121	Hs.9964 Hs.58069 Hs.105959 Hs.111207 Hs.58485 Hs.112889 Hs.53115 Hs.184407 Hs.26920 Hs.10475 Hs.241392	from promoter P1, 5UTR ESTS ribosomal protein; mitochondrial; S12 ESTS; Highly similar to type II cAMP-dep ESTS; Wealdy similar to IIII ALU SUBFAMI ESTS yw50b08.s1 Weizmann Olfactory Epithelium ESTS ESTS ESTS ESTS ESTS ESTS ESTS EST	2.19 2.19 2.19 2.18 2.18 2.18 2.18 2.18 2.17 2.16 2.15 2.15 2.15	HS578T_cells, CALU6_cells, 293T_cells CALU6_cells, Lu_AD_H23, Lu_SC_H69 OVCAR_cells, A549_cells, Lu_AD_H23 HS578T_cells, BT474_cells, A549_cells Lu_AD_358, Lu_SC_H69, Lu_SC_H345 HMEC (total RNA), HMEC, MB-MDA-435s LNCaP_cells, DU145_cells, Lu_SQ_H520 HS578T_cells, MBC31_cells, Caco2 Lu_AD_H23, Lu_SQ_H520, Lu_AD_358 Caco2, 293T_cells, 293T_cells Lu_AD_H23, Lu_AD_358, PRSC_con HMEC (total RNA), HMEC, EB_cells HMEC, HT29_cells, MB231_cells HMEC, HT29_cells, MB231_cells HS578T_cells, PC3_cells, A549_cells
109151 135368 109016 124300 123450 117435 119860 123833 107938 119380 114066 128748 130414 123490	AA176800 AA086057 AA156936 H92575 AA598913 N27628 W80709 AA620717 AA029446 T83659 Z38152 T59001 M21121 AA599723	Hs.9964 Hs.58069 Hs.105959 Hs.111207 Hs.58485 Hs.1112889 Hs.53115 Hs.184407 Hs.26920 Hs.10475 Hs.241392	from promoter P1, 5UTR ESTS inbosomal protein; mitochondriat; S12 ESTs; Highly similar to type II cAMP-dep ESTs; Wealdy similar to till ALU SUBFAMI ESTS yw50008.s1 Weizmann Offactory Epithelium ESTS ESTS ESTS ESTS ESTS ESTS ESTS EST	2.19 2.19 2.19 2.18 2.18 2.18 2.18 2.18 2.17 2.16 2.17 2.16 2.15	HS578T_cells, CALU6_cells, 293T_cells CALU6_cells, Lu_AD_H23, Lu_SC_H69 OVCAR_cells, A549_cells, Lu_AD_H23 HS578T_cells, BT474_cells, A549_cells Lu_AD_388, Lu_SC_H69, Lu_SC_H345 HMEC (total RNA), HMEC, MB-MDA-435s LNCaP_cells, DU145_cells, Lu_SQ_H520 HS578T_cells, MB231_cells, Caco2 Lu_AD_H23, Lu_SQ_H520, Lu_AD_358 Caco2, 293T_cells, 293T_cells Lu_AD_H23, Lu_AD_358, PRSC_con HMEC (total RNA), HMEC, EB_cells HMEC, HT29_cells, MB231_cells
109151 135368 109016 124300 123450 117435 119860 12383 107938 119380 114066 128748 130414	AA176800 AA086057 AA156936 H92575 AA598913 N27628 W80709 AA620717 AA029446 T83659 Z38152 T59001 M21121 AA599723	Hs.9964 Hs.58069 Hs.105959 Hs.111207 Hs.58485 Hs.112889 Hs.53115 Hs.184407 Hs.26920 Hs.10475 Hs.241392	from promoter P1, 5UTR ESTS incompany protein; mitochondriat; S12 ESTs; Highly similar to type II cAMP-dep ESTs; Wealdy similar to till ALU SUBFAMI ESTS yw50008.s1 Weizmann Olfactory Epithelium ESTS ESTS ESTS ESTS ESTS ESTS ESTS EST	2.19 2.19 2.19 2.18 2.18 2.18 2.18 2.18 2.17 2.16 2.15 2.15 2.15	HS578T_cells, CALU6_cells, 293T_cells CALU6_cells, Lu_AD_H23, Lu_SC_H69 OVCAR_cells, A549_cells, Lu_AD_H23 HS578T_cells, B7474_cells, A549_cells Lu_AD_358, Lu_SC_H69, Lu_SC_H345 HMEC (total RNA), HMEC, MB-MDA-435s LNCaP_cells, DU145_cells, Lu_SC_H520 HS578T_cells, MB231_cells, Caco2 Lu_AD_H23, Lu_SC_H520, Lu_AD_358 Caco2, 293T_cells, 293T_cells Lu_AD_H23, Lu_AD_358, PRSC_con HMEC (total RNA), HMEC, EB_cells HMEC, HT29_cells, MB231_cells HS578T_cells, PC3_cells, A549_cells HS578T_cells, EB_cells, Lu_SC_H69
109151 135368 109016 124300 123450 117435 119860 123833 107938 119380 114066 128748 130414 123490	AA176800 AA086057 AA156936 H92575 AA598913 N27628 W80709 AA620717 AA029446 T83659 Z38152 T59001 M21121 AA599723 R77302	Hs.9964 Hs.58069 Hs.105959 Hs.111207 Hs.58485 Hs.112889 Hs.53115 Hs.184407 Hs.26920 Hs.10475 Hs.241392 Hs.20226	from promoter P1, 5UTR ESTs ribosomal protein; mitochondrial; S12 ESTs; Highly similar to type II cAMP-dep ESTs; Wealdy similar to IIII ALU SUBFAMI ESTs yw50b08.s1 Wetzmann Offactory Epithelium ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.19 2.19 2.19 2.18 2.18 2.18 2.18 2.18 2.17 2.16 2.15 2.15 2.15 2.15 2.15 2.15	HS578T_cells, CALUS_cells, 293T_cells CALUS_cells, Lu_AD_H23, Lu_SC_H69 OVCAR_cells, A549_cells, Lu_AD_H23 HS578T_cells, BT474_cells, A549_cells Lu_AD_358, Lu_SC_H69, Lu_SC_H345 HMEC (total RNA), HMEC, MB-MDA-435s LNCaP_cells, DU145_cells, Lu_SQ_H520 HS578T_cells, MB231_cells, Caco2 Lu_AD_H23, Lu_SQ_H520, Lu_AD_358 Caco2, 293T_cells, 293T_cells Lu_AD_H23, Lu_AD_358, PRSC_con HMEC (total RNA), HMEC, EB_cells HMEC, HT29_cells, MB231_cells HS578T_cells, PC3_cells, A549_cells HS578T_cells, EB_cells, Lu_SC_H69 HMEC (total RNA), HMEC, Fibroblasts 2
109151 135368 109016 124300 123450 117435 119860 123833 107938 119380 114066 128748 130414 123490 112588 110548	AA176800 AA086057 AA156936 H92575 AA598913 N27628 W80779 AA620717 AA029446 T83659 Z38152 T59001 M21121 AA599723 R777302 H58715	Ha.9964 Hs.58069 Hs.105959 Hs.111207 Hs.58485 Hs.1112889 Hs.53115 Hs.184407 Hs.26920 Hs.10475 Hs.241392 Hs.20226 Hs.14706	from promoter P1, 5UTR ESTs ribosomal protein; mitochondrial; S12 ESTs; Highly similar to type II cAMP-dep ESTs; Wealdy similar to IIII ALU SUBFAMI ESTs yw50b08.s1 Welzmann Offactory Epithelium ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.19 2.19 2.19 2.18 2.18 2.18 2.18 2.18 2.17 2.16 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.14 2.14	HS578T_cells, CALU6_cells, 293T_cells CALU6_cells, Lu_AD_H23, Lu_SC_H69 OVCAR_cells, A549_cells, Lu_AD_H23 HS578T_cells, BT474_cells, A549_cells Lu_AD_358, Lu_SC_H69, Lu_SC_H345 HMEC (total RNA), HMEC, MB-MDA-435s LNCaP_cells, DU145_cells, Lu_SQ_H520 HS578T_cells, MB231_cells, Caco2 Lu_AD_H23, Lu_SQ_H520, Lu_AD_358 Caco2, 293T_cells, 293T_cells Lu_AD_H23, Lu_AD_358, PRSC_con HMEC (total RNA), HMEC, EB_cells HMEC, HT29_cells, MB231_cells HS578T_cells, PC3_cells, Lu_SC_H69 HMEC (total RNA), HMEC, Fibroblasts 2 HMEC, HMEC (total RNA), HMEC, Fibroblasts 2
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109151 135368 109016 124300 123450 117435 119860 123833 119380 114066 128748 130414 123490 112588 1105619 128058 134573 134863 128811 112368 108395 129611 101253 126701 111628 108675 127131 109590	AA176800 AA086057 AA156936 H92575 AA598913 NZ7628 W807709 AA620717 AA029446 T83659 Z38152 T59001 M21121 AA599723 R777302 H58715 M34996 AA278887 AA280810 A1126617 AA442125 AA353903 H17317 R59371 AA075144  D45680 L34355 AA515212 R15825 AA115240 Z44658 F02465	Ha.9964 Hs.58069 Hs.105959 Hs.111207 Hs.58485 Hs.112889 Hs.53115 Hs.184407 Hs.26920 Hs.10475 Hs.241392 Hs.20226 Hs.198253 Hs.198253 Hs.198253 Hs.198253 Hs.198253 Hs.171873 Hs.171873 Hs.169100 Hs.26653 Hs.11614 Hs.99931 Hs.202590 Hs.4014 Hs.99931 Hs.61816 Hs.618516 Hs.105460 Hs.27281	from promoter P1, 5UTR ESTS indocomal protein; mitochondrial; S12 ESTs; Highly similar to type II cAMP-dep ESTs; Wealdy similar to type II cAMP-dep ESTs; Wealdy similar to till ALU SUBFAMI ESTS ESTS ESTS ESTS ESTS ESTS ESTS EST	2.19 2.19 2.19 2.19 2.18 2.18 2.18 2.18 2.17 2.16 2.15 2.15 2.15 2.14 2.14 2.14 2.14 2.14 2.14 2.14 2.14	HS578T_cells, CALU6_cells, 293T_cells CALU6_cells, Lu_AD_H23, Lu_SC_H69 OVCAR_cells, A549_cells, Lu_AD_H23 HS578T_cells, BT474_cells, A549_cells Lu_AD_358, Lu_SC_H69, Lu_SC_H345 HMEC (total RNA), HMEC, MB-MDA-435s LNCaP_cells, DU145_cells, Lu_SQ_H520 HS578T_cells, MB231_cells, Caco2 Lu_AD_H23, Lu_SQ_H520, Lu_AD_358 Caco2, 293T_cells, 293T_cells Lu_AD_H23, Lu_AD_358, PRSC_con HMEC (total RNA), HMEC, EB_cells HMEC, HT29_cells, MB231_cells HS578T_cells, PC3_cells, A549_cells HS578T_cells, EB_cells, Lu_SC_H69 HMEC (total RNA), HMEC, Fibroblasts 2 HMEC, HMEC (total RNA), HMEC, Fibroblasts 2 HMEC, HMEC (total RNA), HMEC (total RNA) HMEC, HMEC (total RNA), HT29_cells MB-MDA-435s, HMEC, HWEC HT29_cells, BT474_cells, CALU6_cells Lu_SC_H345, HT29_cells, BT474_cells Caco2, Lu_SC_H345, EB_cells, HMEC (total RNA) EB_cells, MB231_cells, Caco2 Lu_SC_H345, HT29_cells, BT474_cells Caco2, Lu_SC_H345, EB_cells HMEC, HMEC (total RNA), Lu_SO_H520  2.13 HMEC (total RNA), Lu_SO_H520  2.14 HMEC, HS578T_cells, Caco2 HS578T_cells, OVCAR_cells, CALU6_cells EB_cells, Lu_AD_H23, Lu_AD_H23 A549_cells, BT474_cells, MB-MDA-435s Lu_AD_H23, MB-MDA-453, PRSC_con EB_cells, Lu_SC_H69, Lu_SC_H69 HMEC, HS578T_cells, HMEC (total RNA)
109151 135368 109016 124300 123450 117435 119860 122883 119380 114066 128744 123490 112588 110548 101581 115248 105619 128058 134573 134863 128811 112368 108395 129611 101253 126701 111628 108590 116539	AA176800 AA086057 AA156936 H92575 AA598913 NZ7628 W80779 AA620717 AA029446 T83659 Z38152 T59001 M21121 AA599723 R77302 H58715 M34996 AA278887 AA280810 A1126617 AA442125 AA353901 H17317 R59371 AA075144 D45680 L34325 AA515212 R15825 AA115240 Z44658 D12124	Ha.9964 Hs.58069 Hs.105959 Hs.111207 Hs.58485 Hs.112889 Hs.53115 Hs.184407 Hs.26920 Hs.10475 Hs.241392 Hs.20226 Hs.194530 Hs.24003 Hs.132449 Hs.171873 Hs.169100 Hs.26653 Hs.11614 Hs.99931 Hs.202590 Hs.4014 Hs.61816 Hs.61816 Hs.105460 Hs.27281 Hs.242890	from promoter P1, 5UTR ESTS ribosomal protein; mitochondriat; S12 ESTs; Highly similar to type II cAMP-dep ESTs; Wealdy similar to type II cAMP-dep ESTs; Wealdy similar to type II cAMP-dep ESTs ESTS ESTS ESTS ESTS ESTS ESTS ESTS	2.19 2.19 2.19 2.19 2.18 2.18 2.18 2.18 2.16 2.15 2.15 2.15 2.15 2.14 2.14 2.14 2.14 2.14 2.14 2.13 2.13 2.13 2.12 2.12 2.12 2.12 2.12	HS578T_cells, CALU6_cells, 293T_cells CALU6_cells, Lu_AD_H23, Lu_SC_H69 OVCAR_cells, A549_cells, Lu_AD_H23 HS578T_cells, BT474_cells, A549_cells Lu_AD_358, Lu_SC_H69, Lu_SC_H345 HMEC (total RNA), HMEC, MB-MDA-435s LNCaP_cells, DU145_cells, Lu_SQ_H520 HS578T_cells, MB231_cells, Caco2 Lu_AD_H23, Lu_SQ_H520, Lu_AD_358 Caco2, 293T_cells, 293T_cells Lu_AD_H23, Lu_AD_358, PRSC_con HMEC (total RNA), HMEC, EB_cells HMEC, HT29_cells, MB231_cells HS578T_cells, PC3_cells, A549_cells HS578T_cells, EB_cells, Lu_SC_H69 HMEC (total RNA), HMEC, Fibroblasts 2 HMEC, HMEC (total RNA), HMEC, Fibroblasts 2 HMEC, HMEC (total RNA), HT29_cells MB-MDA-435s, HMEC, HWEC HT29_cells, BT474_cells, CALU6_cells Lu_SQ_H520, MB-MDA-435s, LNCaP_cells HS578T_cells, EB_cells, HMEC (total RNA) EB_cells, MB231_cells, Caco2 Lu_SC_H345, HT29_cells, BT474_cells Caco2, Lu_SC_H345, EB_cells HMEC, HMEC (total RNA), Lu_SQ_H520  2.13 HMEC, HS578T_cells, Caco2 HS578T_cells, DH23, Lu_AD_H23 A549_cells, BT474_cells, MB-WDA-435s Lu_AD_H23, MB-MDA-435, PRSC_con EB_cells, Lu_SC_H69, Lu_SC_H69 HMEC, HS578T_cells, HMEC (total RNA) Lu_AD_H23, Caco2, BT474_cells
109151 135368 109016 124300 123450 117435 119860 123833 119380 114066 128748 130414 123490 112588 1105619 128058 134573 134863 128811 112368 108395 129611 101253 126701 111628 108675 127131 109590	AA176800 AA086057 AA156936 H92575 AA598913 NZ7628 W80779 AA620717 AA029446 T83659 Z38152 T59001 M21121 AA599723 R77302 H58715 M34996 AA278887 AA280810 A1126617 AA442125 AA353901 H17317 R59371 AA075144 D45680 L34325 AA515212 R15825 AA115240 Z44658 D12124	Ha.9964 Hs.58069 Hs.105959 Hs.111207 Hs.58485 Hs.112889 Hs.53115 Hs.184407 Hs.26920 Hs.10475 Hs.241392 Hs.20226 Hs.198253 Hs.198253 Hs.198253 Hs.198253 Hs.198253 Hs.171873 Hs.171873 Hs.169100 Hs.26653 Hs.11614 Hs.99931 Hs.202590 Hs.4014 Hs.99931 Hs.61816 Hs.618516 Hs.105460 Hs.27281	from promoter P1, 5UTR ESTS ribosomal protein; mitochondriat; S12 ESTs; Highly similar to type II cAMP-dep ESTs; Wealdy similar to type II cAMP-dep ESTs; Wealdy similar to type II cAMP-dep ESTs ESTS ESTS ESTS ESTS ESTS ESTS ESTS	2.19 2.19 2.19 2.19 2.18 2.18 2.18 2.18 2.17 2.16 2.15 2.15 2.15 2.14 2.14 2.14 2.14 2.14 2.14 2.14 2.14	HS578T_cells, CALU6_cells, 293T_cells CALU6_cells, Lu_AD_H23, Lu_SC_H69 OVCAR_cells, A549_cells, Lu_AD_H23 HS578T_cells, BT474_cells, A549_cells Lu_AD_358, Lu_SC_H69, Lu_SC_H345 HMEC (total RNA), HMEC, MB-MDA-435s LNCaP_cells, DU145_cells, Lu_SQ_H520 HS578T_cells, MB231_cells, Caco2 Lu_AD_H23, Lu_SQ_H520, Lu_AD_358 Caco2, 293T_cells, 293T_cells Lu_AD_H23, Lu_AD_358, PRSC_con HMEC (total RNA), HMEC, EB_cells HMEC, HT29_cells, MB231_cells HS578T_cells, PC3_cells, A549_cells HS578T_cells, EB_cells, Lu_SC_H69 HMEC (total RNA), HMEC, Fibroblasts 2 HMEC, HMEC (total RNA), HMEC, Fibroblasts 2 HMEC, HMEC (total RNA), HMEC (total RNA) HMEC, HMEC (total RNA), HT29_cells MB-MDA-435s, HMEC, HWEC HT29_cells, BT474_cells, CALU6_cells Lu_SC_H345, HT29_cells, BT474_cells Caco2, Lu_SC_H345, EB_cells, HMEC (total RNA) EB_cells, MB231_cells, Caco2 Lu_SC_H345, HT29_cells, BT474_cells Caco2, Lu_SC_H345, EB_cells HMEC, HMEC (total RNA), Lu_SO_H520  2.13 HMEC (total RNA), Lu_SO_H520  2.14 HMEC, HS578T_cells, Caco2 HS578T_cells, OVCAR_cells, CALU6_cells EB_cells, Lu_AD_H23, Lu_AD_H23 A549_cells, BT474_cells, MB-MDA-435s Lu_AD_H23, MB-MDA-453, PRSC_con EB_cells, Lu_SC_H69, Lu_SC_H69 HMEC, HS578T_cells, HMEC (total RNA)

126367	AA477929	Hs 25584	FSTs	2,12	Lu_SC_H69, Lu_AD_H23, Lu_AD_358
	U62966		solute carrier family 28 (sodium-coupled	2.11	MB-MDA-435s, 293T_ceils, CALU6_ceils
	N34301	Hs.248426		2.11	HMEC, HS578T_cells, MB231_cells
		Hs.197877	H saplens clone 23777 putative transmemb	2.11	HS578T_cells, Lu_AD_358, MB-MDA-435s
	AA169801		sema domain; immunoglobulin domain (lg);	2.11	HMEC, HMEC (total RNA), EB_cells
	D20342	Hs.178137	transducer of ERBB2; 1 (TOB1)	2.11	HMEC (total RNA), 293T_cells, OVCAR_cells
		Hs.155344	DNA fragmentation factor, 45 kD; alpha s	2.11	293T_cells, Caco2, Lu_AD_H23
	D20925	Hs.5842	ESTs	2.11	HMEC (total RNA), Fibroblasts 2, HMEC
_	N36404	Hs.44807		2.11	HMEC, Caco2, HS578T_cells
	T59442	Hs.100445		2.11	MB-MDA-435s, HMEC (total RNA), HT29_cells
	AA825437			2.11	HS578T_cells, PRSC_con, PRSC_log
	Z38149		uronyi 2-sulfotransferase	2.11	MB-MDA-435s, 293T_cells, PRSC_con
	AA292747			211	HT29_cells, Lu_AD_H23, Lu_SC_H69
	T49444	Hs.77031		2.1	Lu_LC_H460, Lu_AD_358, RPWE_2
	AA430179		putative Ac-like transposon	2.1	HS578T_ceils, EB_ceils, HMEC
	N51529	Hs.118047		2.09	EB_ceils, HS578T_ceils, MCF7
	AA017161			2.09	HMEC (total RNA), MB231_cells, BT474_cells
	F03935	Hs.241640		2.09	HS578T_cells, Lu_LC_H460, Lu_SC_H69
	AA194074			2.09	OVCAR_cells, HMEC (total RNA), HMEC
			DKFZP586N2124 protein	2.09	HMEC (total RNA), BT474_cells, HT29_cells
	AA399633			2.09	Fibroblasts 2, A549_cells, HS578T_cells
	Z40805	Hs.91668		2.09	BT474_cells, MB-MDA-453, EB_cells
	R56222	Hs.26514		2.09	
	H04811	Hs.79027			LU_AD_H23, Fibroblasts 2, LU_LC_H460
			ESTS	2.08 2.08	MB-MDA-435s, HMEC (total RNA), Lu_SC_H345
	AA412257		ESTS		HMEC, HMEC (total RNA), HS578T_cells
			ESTs; Highly similar to R26660_1; partia	2.08	LNCaP_cells, PRSC_log, PRSC_log
	AA088231			2.08	HS578T_cells, Lu_SC_H345, Lu_SC_H69
	AA489250		serine paimitoyitransferase; subunit li	2.08	EB_cells, Lu_SC_H69, Lu_SC_H345
	J05480	Hs.92	protein phosphatase 3 (formerly 2B); cat		LNCaP_cells, MB-MDA-435s, HMEC
	AA620814			2.08	HS578T_cells, BT474_cells, BT474_cells
132058	AA251737	Hs.172818	Apg 12 (autophagy 12; S. cerevisiae)-like	2.07	HS578T_cells, MCF7, HMEC
	R94666		ESTs; Weakly similar to transporter prot	2.07	PRSC_log, Lu_LC_H460, RPWE_2
	AA418740			2.07	OVCAR_cells, A549_cells, Lu_AD_H23
103802	AA122003	Hs.62954	ferritin; heavy polypeptide 1	2.07	HMEC, HMEC (total RNA), HS578T_cells
	AA908225			2.07	EB_cells, Fibroblasts 2, Lu_SC_H69
112817	R98491	Hs.14584	ESTs	2.07	HMEC, HMEC (total RNA), Fibroblasts 2
111050	N56984	Hs.74335	heat shock 90kD protein 1; beta	2.07	LNCaP_cells, DU145_cells, 293T_cells
			ESTs; Weakly similar to Closely related	2.07	LNCaP_cells, MB-MDA-453, Caco2
	N62868	Hs.48653		2.07	HMEC (total RNA), HMEC, EB_cells
	AA128486		ESTs	2.07	LNCaP_cells, PC3_cells, EB_cells
	U36922		Human fork head domain protein (FKHR) mR		293T_cells, HMEC, HT29_cells
	F09380	Hs.182859		2.06	BT474_cells, BT474_cells, Lu_AD_H23
	F10789	Hs.12439		2.06	EB_cells, EB_cells, Caco2
	AA905960			2.06	HT29_cells, HMEC (total RNA), HMEC
	AI018343			2.06	PRSC_con, Lu_SC_H345, HS578T_cells
	H39997	Hs.33716		2.06	HMEC (total RNA), HMEC, EB_cells
	AA455528			2.05	LNCaP_cells, Lu_AD_H23, HS578T_cells
	AA884838			2.05	HMEC, HMEC (total RNA), Fibroblasts 2
	N28028	Hs.26968			
	AA365644		H saplens mRNA from chromosome 5q21-22; ESTs		MB-MDA-435s, Lu_LC_H460, Lu_SQ_H520
	AA303166			2.05	HS578T_cells, PRSC_con, HMEC
			ESIS		
				2.05	HMEC (total RNA), LNCaP_cells, PC3_cells
		Hs.28454	ESTs	2.05	Fibroblasts 2, HMEC (total RNA), EB_cells
10402/	AA001976	Hs.28454 Hs.19603	ESTs ESTs	2.05 2.05	Fibroblasts 2, HMEC (total RNA), EB_cells HS578T_cells, HMEC, BT474_cells
108794	AA001976 AA129468	Hs.28454 Hs.19603 Hs.203392	ESTS ESTS ESTS	2.05 2.05 2.04	Fibroblasts 2, HMEC (total RNA), EB_cells HS578T_cells, HMEC, BT474_cells HS578T_cells, HMEC, A549_cells
108794 111896	AA001976 AA129468 R38936	Hs.28454 Hs.19603 Hs.203392 Hs.24894	ESTs ESTs ESTs H saplens clone 25248 mRNA seq	2.05 2.05 2.04 2.04	Fibroblasts 2, HMEC (total RNA), EB_cells HS578T_cells, HMEC, BT474_cells HS578T_cells, HMEC, A549_cells HS578T_cells, PC3_cells, 293T_cells
108794 111896 101849	AA001976 AA129468 R38936 M94167	Hs.28454 Hs.19603 Hs.203392 Hs.24894 Hs.172816	ESTs ESTs ESTs H saplans clone 25248 mRNA seq neuregulin 1	2.05 2.05 2.04 2.04 2.04	Fibroblasts 2, HMEC (total RNA), EB_cells HS578T_cells, HMEC, BT474_cells HS578T_cells, HMEC, A549_cells HS578T_cells, PC3_cells, 293T_cells HMEC, HS578T_cells, HMEC (total RNA)
108794 111896 101849 119913	AA001976 AA129468 R38936 M94167 W85931	Hs.28454 Hs.19603 Hs.203392 Hs.24894 Hs.172816 Hs.58785	ESTS ESTS ESTS H sapiens clone 25248 mRNA seq neuregulin 1 ESTS	2.05 2.05 2.04 2.04 2.04 2.04 2.04	Fibroblasts 2, HMEC (total RNA), EB_cels HSS78T_cels, HMEC, BT474_cels HSS78T_cels, HMEC, A549_cels HSS78T_cels, PC3_cels, 293T_cels HMEC, HSS78T_cels, HMEC (total RNA) HMEC, BT474_cels, MB231_cels
108794 111896 101849 119913 130785	AA001976 AA129468 R38936 M94167 W85931 AA242826	Hs.28454 Hs.19603 Hs.203392 Hs.24894 Hs.172816 Hs.58785 Hs.19405	ESTs ESTs ESTs H saplens clone 25248 mRNA seq neuregulin 1 ESTs caspase recruitment domain 4	2.05 2.05 2.04 2.04 2.04 2.04 2.04 2.04	Fibroblasts 2, HMEC (total RNA), EB_cels HS578T_cels, HMEC, BT474_cels HS578T_cels, HMEC, A549_cels HS578T_cels, PC3_cels, 293T_cels HMEC, HS578T_cels, HMEC (total RNA) HMEC, BT474_cels, MB231_cels HMEC, HS578T_cels, BT474_cels
108794 111896 101849 119913 130785 124702	AA001976 AA129468 R38936 M94167 W85931 AA242826 R06984	Hs.28454 Hs.19603 Hs.203392 Hs.24894 Hs.172816 Hs.58785 Hs.19405 Hs.7745	ESTs ESTs ESTs H sapiens clone 25248 mRNA seq neuregulin 1 EST9 caspase recruitment domain 4 ESTs; Wealdy similar to TESTIS-SPECIFIC	2.05 2.05 2.04 2.04 2.04 2.04 2.04 2.04 2.03	Fibroblasts 2, HMEC (total RNA), EB_cels HS578T_cels, HMEC, BT474_cels HS578T_cels, HMEC, A549_cels HS578T_cels, HMEC, A549_cels HS578T_cels, HMEC (total RNA) HMEC, HS578T_cels, MB231_cels HMEC, HS578T_cels, BT474_cels Fibroblasts 2, PRSC_con, HMEC
108794 111896 101849 119913 130785 124702 106769	AA001976 AA129468 R38936 M94167 W85931 AA242826 R06984 AA478001	Hs.28454 Hs.19603 Hs.203392 Hs.24894 Hs.172816 Hs.58785 Hs.19405 Hs.7745 Hs.225935	ESTs ESTs ESTs H sapiens clone 25248 mRNA seq neuregulin 1 EST9 caspase recruitment domain 4 ESTs; Weakly similar to TESTIS-SPECIFIC diacylghycerol O-acyltransferase (mouse)	2.05 2.04 2.04 2.04 2.04 2.04 2.04 2.03 2.03	Fibroblasts 2, HMEC (total RNA), EB_cells HS578T_cells, HMEC, BT474_cells HS578T_cells, HMEC, A549_cells HS578T_cells, PC3_cells, 293T_cells HS578T_cells, PC3_cells, EB_Cells RNA) HMEC, HS578T_cells, MB231_cells HMEC, BT474_cells, MB231_cells HMEC, HS578T_cells, BT474_cells Fibroblasts 2, PRSC_con, HMEC PC3_cells, EB_cells, HS578T_cells
108794 111896 101849 119913 130785 124702 106769 132219	AA001976 AA129468 R38936 M94167 W85931 AA242826 R06984 AA478001 N48682	Hs.28454 Hs.19603 Hs.203392 Hs.24894 Hs.172816 Hs.58785 Hs.19405 Hs.7745 Hs.225935 Hs.172971	ESTs ESTs ESTs H sapiens clone 25248 mRNA seq neuregulin 1 ESTs ESTs Caspase recruitment domain 4 ESTs; Weakly similar to TESTIS-SPECIFIC diacy/ghycerol O-acyltrans/erase (mouse) ESTs	2.05 2.05 2.04 2.04 2.04 2.04 2.04 2.04 2.03	Fibroblasts 2, HMEC (total RNA), EB_cells HS578T_cells, HMEC, BT474_cells HS578T_cells, HMEC, A549_cells HS578T_cells, HMEC, A549_cells HS578T_cells, HC2_cells, HMEC (total RNA) HMEC, HS578T_cells, MB231_cells HMEC, HS578T_cells, BT474_cells Ffbroblasts 2, PRSC_con, HMEC PC3_cells, EB_cells, HS578T_cells HT29_cells, PC3_cells, A549_cells
108794 111896 101849 119913 130785 124702 106769 132219 122033	AA001976 AA129468 R38936 M94167 W85931 AA242826 R06984 AA478001 N48682 AA431334	Hs.28454 Hs.19603 Hs.203392 Hs.24894 Hs.172816 Hs.58785 Hs.19405 Hs.7745 Hs.225935 Hs.172971	ESTs ESTs H sapiens clone 25248 mRNA seq neuregulin 1 ESTs caspase recruitment domain 4 ESTs; Weakly similar to TESTIS-SPECIFIC diacylghycerol O-acyltransferase (mouse) ESTs ESTs	2.05 2.04 2.04 2.04 2.04 2.04 2.03 2.03 2.03 2.03	Fibroblasts 2, HMEC (total RNA), EB_cells HS578T_cells, HMEC, BT474_cells HS578T_cells, HMEC, A549_cells HS578T_cells, PC3_cells, 293T_cells HS578T_cells, PC3_cells, EB_Cells RNA) HMEC, HS578T_cells, MB231_cells HMEC, BT474_cells, MB231_cells HMEC, HS578T_cells, BT474_cells Fibroblasts 2, PRSC_con, HMEC PC3_cells, EB_cells, HS578T_cells
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108794 111896 101889 119913 130785 124702 106769 132219 122033 120461 134969 101950 133878 103459 125507 11657 112520 102533	AA001976 AA129468 R38936 M94167 W85931 AA242826 R06984 AA478001 N86882 AAA31334 AA251301 U90550 AA055892 S79219 D78947 X99894 AI436377 F04014 T10234 AA258572	Hs.28454 Hs.19603 Hs.203392 Hs.224894 Hs.172816 Hs.58785 Hs.19405 Hs.225935 Hs.172971 Hs.109297 Hs.91813 Hs.91813 Hs.80741 Hs.7718 Hs.32938 Hs.258590 Hs.65996 Hs.65996 Hs.4275	ESTs ESTs ESTs ESTs H saplens clone 25248 mRNA seq neuregulin 1 ESTs caspase recruitment domain 4 ESTs; Weakly similar to TESTIS-SPECIFIC diacytghycerol O-acytransferase (mouse) ESTs ESTs ESTs ESTs as10b02.s1 NCL_CGAP_GCB1 H sapiens cDN contains Alu repetitive element;, mRNA butyrophilin; subfamily 2; member A2 ESTs propionyl Coenzyma A carboxylase; alpha ESTs; Weakly similar to weak similarity insulin promoter factor 1; homeodomain t tetraspanin TM4-B ESTs ESTs ESTs ESTs ESTs; Moderately similar to seven transm	205 205 204 204 204 203 203 203 203 203 203 203 203 203 203	Fibroblasts 2, HMEC (total RNA), EB_cels HS578T_cels, HMEC, BT474_cels HS578T_cels, HMEC, BT474_cels HS578T_cels, HMEC, A549_cells HS578T_cels, HC2_cels, 23T_cells HMEC, HS578T_cels, HMEC (total RNA) HMEC, BT474_cels, MB231_cels HMEC, HS578T_cels, BT474_cels Fibroblasts 2, PRSC_con, HMEC PC3_cels, EB_cels, HS578T_cels HT29_cels, PC3_cels, A549_cels OVCAR_cels, A549_cels, Caco2  HS578T_cels, EB_cels, EB_cels LU_SC_H345, PC3_cels, DU145_cels LU_SC_H345, PC3_cels, CALU6_cels LU_SC_H69_EB_cels, CALU6_cels EB_cels, MCF7, MB231_cels EB_cels, LU_SC_H520, LU_AD_H23 HS578T_cels, LU_SC_H520, LU_AD_H23 HS578T_cels, HMEC, MB231_cels
108794 111896 101889 119913 130785 124702 106769 132219 122033 120461 134969 101950 133878 103459 125507 11657 112520 102533	AA001976 AA129468 R38936 M94167 W85931 AA242826 R06984 AA478001 N48682 AA431334 AA251301 U90550 AA055892 S79219 D78947 X99894 AI4363777 F04014 T10234	Hs.28454 Hs.19603 Hs.203392 Hs.224894 Hs.172816 Hs.58785 Hs.19405 Hs.225935 Hs.172971 Hs.109297 Hs.91813 Hs.91813 Hs.80741 Hs.7718 Hs.32938 Hs.258590 Hs.65996 Hs.65996 Hs.4275	ESTs ESTs ESTs H saplens clone 25248 mRNA seq neuregulin 1 ESTs caspase recruitment domain 4 ESTs; Weakly similar to TESTIS-SPECIFIC diacylghycerol O-acyltranslerase (mouse) ESTs ESTs ESTs zs10b02.s1 NCL_CGAP_GCB1 H sapiens cDN contains Alu repetitive element;, mRNA butyrophilin; subfamily 2; member A2 ESTs ESTs ESTs ESTs; Weakly similar to weak similarity insulin promoter factor 1; homeodomain t tetraspanin TM4-B ESTs ESTs ESTs ESTs ESTs ESTs; Moderately similar to seven transm zm13b04.f1 Stratagene pancreas (#937708)	2.05 2.05 2.04 2.04 2.04 2.03 2.03 2.03 2.03 2.03 2.03 2.03 2.03	Fibroblasts 2, HMEC (total RNA), EB_cells HSS78T_cells, HMEC, BT474_cells HSS78T_cells, HMEC, BT474_cells HSS78T_cells, HMEC, A549_cells HSS78T_cells, PC3_cells, 23T_cells HMEC, HSS78T_cells, HMEC (total RNA) HMEC, BT474_cells, MB231_cells HMEC, HSS78T_cells, BT474_cells Ffbroblasts 2, PRSC_con, HMEC PC3_cells, EB_cells, HSS78T_cells HT29_cells, PC3_cells, A549_cells OVCAR_cells, A549_cells, Caco2  HSS78T_cells, EB_cells, EB_cells HMEC, Fibroblasts 2, EB_cells Lu_SC_H69, EB_cells, CALL16_cells Lu_SC_H69, EB_cells, CALL16_cells EB_cells, MCF7, MB231_cells EB_cells, Lu_AD_H23, Lu_AD_358 A549_cells, Lu_SC_H520, Lu_AD_H23 HSS78T_cells, HMEC, MB231_cells HSS78T_cells, HMEC, MB231_cells HSS78T_cells, HMEC, EB_cells
108794 111896 101849 119913 130785 124702 106769 132219 122033 120461 134959 104909 101950 133878 103459 125507 116657 112920 105533 126762	AA001976 AA129468 R38936 M94167 W85931 AA242826 R06984 AA478001 N86882 AAA31334 AA251301 U90550 AA055892 S79219 D78947 X99894 AI436377 F04014 T10234 AA258572	Hs.28454 Hs.19603 Hs.203392 Hs.224894 Hs.172816 Hs.58785 Hs.19405 Hs.225935 Hs.172971 Hs.109297 Hs.91813 Hs.91813 Hs.80741 Hs.7718 Hs.32938 Hs.258590 Hs.65996 Hs.65996 Hs.4275	ESTs ESTs ESTs H saplens clone 25248 mRNA seq neuregulin 1 ESTs caspase recruitment domain 4 ESTs; Weakly similar to TESTIS-SPECIFIC diacylghycerol O-acyltranslerase (mouse) ESTs ESTs ESTs 2s10b02.s1 NCL_CGAP_GCB1 H saplens cDN contains Alu repetitive element;, mRNA butyrophilin; subfamily 2; member A2 ESTs: TESTS ESTS ESTS; Weakly similar to weak similarity insulin promoter factor 1; homeodomain t tetraspanin TM4-B ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.05 2.05 2.04 2.04 2.04 2.03 2.03 2.03 2.03 2.03 2.03 2.03 2.03	Fibroblasts 2, HMEC (total RNA), EB_cells HSS78T_cells, HMEC, BT474_cells HSS78T_cells, HMEC, BT474_cells HSS78T_cells, HMEC, A549_cells HSS78T_cells, PC3_cells, 293T_cells HMEC, HSS78T_cells, HMEC (total RNA) HMEC, BT474_cells, MB231_cells HMEC, HSS78T_cells, BT474_cells Fibroblasts 2, PRSC_con, HMEC PC3_cells, PC3_cells, B578T_cells HT29_cells, PC3_cells, HSS78T_cells HT29_cells, A549_cells Ceclls HSS78T_cells, EB_cells, EB_cells LU_SC_H345, PC3_cells, DU145_cells LU_SC_H345, PC3_cells, DU145_cells LU_SC_H69, EB_cells, CALU6_cells EB_cells, MCF7, MB231_cells EB_cells, LU_SC_H520, LU_AD_J523 HSS78T_cells, HMEC, MB231_cells HSS78T_cells, EB_cells, PRSC_con

133902 AA114858 Hs.7745 ESTs; Wealthy similar to TESTIS-SPECIFIC 2

Fibroblasts 2, PRSC\_con, DU145\_cells

# Table 2

Pkey: Unique Eos probeset identifier number
ExAcca: Reemplar Accession number, Genbank accession number
UnigeneID: Unigene number
Unigene Title: Unigene gene title

Pkey	Ex Acen	Uni <b>G_</b> jD	Complete_Title	Ratio Mets/BS	Top 3 expressing cell lines	
101447	M21305	Hs.247946	Human alpha satellite and satellite 3 ju	110.98	EB_ceils, Fibroblasts 2, A549_ceils	
105039	AA130349	Hs.36475	ESTs	9.13	EB_cells, OVCAR_cells, Ltu_SC_H345	
106094	AA419461	Hs.18127	ESTs	8.51	HT29_cells, MB-MDA-453, HS578T_cells	
105777	AA348412	Hs.23096	ESTs	8.4	293T_cells, OVCAR_cells, EB_cells	
129818	N54841	Hs.172572	ESTs	7.2	Lu_SC_H69, EB_cells, Lu_SC_H345	
118475	N66845		ESTs: Wealthy similar to IIII ALU CLASS B	7	DU145_cells, EB_cells, Caco2	
	R48744	Hs.192878		6.91	293T_cells, DU145_cells, HT29_cells	
			ESTs; Highly similar to unknown [H.saple	6.6	EB_calls, 293T_cells, DU145_cells	
	R79750		nuclear receptor subfamily 1; group I; m	6.58	293T_cells, OVCAR_cells, HMEC	
	AA285053			6.55	CALUS cells, OVCAR cells, EB cells	
	AA404564			6.43	EB_cells, LNCaP_cells, Lu_SC_H345	
	N67086	Hs.102000		6.35	PC3_cells, A549_cells, DU145_cells	
	R81509		splicing factor; arginine/serine-rich 11	6.32	293T cells, Lu SC H345, HMEC	
	AA131450			6.13	Caco2, MB-MDA-435s, PRSC_log	
	AA424791		KIAA0679 protein	6	OVCAR_cells, EB_cells, 2937_cells	
	AA081079	113.0701	zn32h9.s1 Stratagene endothelial cell 93	· ·	01014 (0000) 2001 2001 2000	
117010	74001075		IMAGE:549185 3', mRNA seq	5.97	PRSC_con, DU145_cells, HS578T_cells	
120291	R12777	He 15305	ESTs; Weakly similar to ARGINYL-TRNA SY		5.94 PRSC_con, HT29_cells, EB_cells -:	
	R05818	Hs.173830		5.92	LNCaP_cells, EB_cells, OVCAR_cells	_
	T88700	Hs.173374			DU145_cells, PC3_cells, HMEC (total RNA)	•
				5.81		
	H88496	Hs.40583		5.77	OVCAR_cells, HS578T_cells, A549_cells	
	N79496	Hs.50824		5.45	LNCaP_cells, OVCAR_cells, DU145_cells	
	AA262179			5.35	293T_cells, BT474_cells, MCF7	
	F09317		ESTs; Wealthy similar to LINE-1 REVERSE T	5.34	Fibroblasts 2, Lu_SC_H69, DU145_cells	
104008	R56678	H3.66309	Human DNA seq from clone 967N21 on chr 2	r 00	CD cells 200 15 1 00 1245	
400000	4.4450004	11. 700000	part of KIAA0172; the gene for a novel	5.32	EB_cells, PC3_cells, Lu_SC_H345	
	AA158234			5.23	HT29_cells, PC3_cells, Lu_AD_358	
	U50535		Human BRCA2 region; mRNA seq CG006	5.2	293T_cells, EB_cells, DU145_cells	
	R85436	Hs.193150		5.2	MB-MDA-435s, PRSC_con, MB-MDA-453	
	AA490969	Hs.168147		5.18	PC3_cells, LNCaP_cells, CALU6_cells	
	AA136653		ESTs	5.04	EB_cells, Fibroblasts 2, A549_cells	
	AA449804			5.04	Lu_SC_H345, PRSC_con, LNCaP_cells	
	U20758	Hs.313	secreted phosphoprotein 1 (osteopontin;	5.02	Lu_LC_H460, A549_cells, MB-MDA-435s	
	AA404384		ESTs	5.01	EB_cells, Lu_SC_H69, DU145_cells	
			cathepsin D (lysosomal aspartyl protease	4.96	EB_cells, MCF7, DU145_cells	
	AA176428			4.86	DU145_cells, PC3_cells, PRSC_log	
	AA082041		ESTs	4.83	EB_cells, Lu_SC_H345, HS578T_cells	
	R70506		ESTs; Weakly similar to IIII ALU SUBFAMI	4.75	DU145_cells, OVCAR_cells, LNCaP_cells	
	U40434	Hs.155981		4.71	OVCAR_cells, Lu_AD_H23, RPWE_2	
	AA826117			4.69	EB_cells, HS578T_cells, DU145_cells	
	T78089	Hs.168887		4.58	OVCAR_cells, 293T_cells, DU145_cells	
	U52696		Humn adrenal Creb-rp hmlg (Creb-rp), com	4.57	Lu_SC_H345, Lu_SC_H69, HT29_cells	
			Human endogenous retroviral protease mRN		PC3_cells, EB_cells, Lu_SQ_H520	
	AA255991			4.57	OVCAR_ceils, 293T_ceils, PC3_ceils	
	AA599106			4.55	LNCaP_cells, Lu_SC_H69, 293T_cells	•
	T59257	Hs.194407		4.55	A549_cells, 293T_cells, 293T_cells	
	AA598661			4.55	EB_cells, OVCAR_cells, HT29_cells	
	M28170		CD19 antigen	4.53	OVCAR_cells, DU145_cells, EB_cells	
	AA419470			4.51	DU145_cells, LNCaP_cells, EB_cells	
	H88486	Hs.108806		4.45	LNCaP_cells, Caco2, EB_cells	
135232	AA342457	Hs.96800	ESTs; Moderately similar to IIII ALU SUB	4.43	LNCaP_cells, DU145_cells, OVCAR_cells	
124847	R60044	Hs.106706	ESTs; Highly similar to BETA-CATENIN [H.	4.42	OVCAR_cells, CALU6_cells, CALU6_cells	
	H40988		ESTs; Weakly similar to IIII ALU SUBFAMI	4.39	DU145_cells, OVCAR_cells, LNCaP_cells	
	U25165	Hs.82712	fragile X mental retardation; autosomal	4.38	HS578T_cells, OVCAR_cells, DU145_cells	
	AA290603	Hs.256517		4.36	Lu_SC_H345, OVCAR_cells, PC3_cells	
119174	R71234		yi54c08.s1 Soares placenta Nb2HP H saple			
			transcript, (rRNA); glxS41458 ROD CGMP-			
			BETA-SUBUNIT (HUMAN); contain	4.33	DU145_ceils, OVCAR_ceils, LNCaP_ceils	
	AA429265	Hs.126759	ESTs	4.3	EB_cells, HT29_cells, Lu_SC_H69	
	N33063	Hs.23291	ESTs; Wealthy similar to S164 [H.sapiens]	4.28	OVCAR_cells, EB_cells, Lu_SC_H69	
102474	U49973		Human Tigger1 transposable element, comp	4.28	DU145_cells, LNCaP_cells, OVCAR_cells	
			KIAAC612 protein	4.27	A549_cells, A549_cells, BT474_cells	
116459	AA621399			4.22	Caco2, HS578T_cells, MB-MDA-435s	
126301	N62371			4.22	PC3_cells, DU145_cells, Lu_SC_H345	
	AA598990			4.22	Lu SC_H345, Lu_SC_H69, OVCAR_cells	

130588	AA287735	Hs.16411	Human DNA seq from clone 1189B24 on ch MLRQ subunit (EC 1.6.5.3; EC 1.6.99.3;	סזו			
			Tyrosine-protein Kinase FER (EC 2.7.1.1	4.2		ER colle 11/000 colle 1/057	
125756	W25498	Hs 81634	ATP synthase; H+ transporting; mitochond	4.2		EB_cells, LNCaP_cells, MCF7 HMEC, EB_cells, DU145_cells	
	AA040507	Hs.251868	ESTs	4.19		293T_cells, EB_cells, DU145_cells	
	AA598589			4.18		293T_cells, DU145_cells, EB_cells	
	R82063	Hs.101594		4.16		OVCAR cells, Lu SC_H345, HIMEC (total RA	lA)
119404	T92950		ye27c10.s1 Stratagene hung (#937210) H s	4.15		DU145_cells, PC3_cells, Fibroblasts 2	- •
125090	T91518	•	ye20f05.s1 Stratagene lung (#937210) H s			· · · · · · · · · · · · · · · · · · ·	
			contains Alu repetitive element;contain	4.14		LNCaP_cells, DU145_cells, OVCAR_cells	
	N24157	Hs.139615		4.1	•	Lu_SC_H345, Lu_SC_H69, PRSC_log	
	N95837	Hs.169111	ESTs; Weakly similar to L82A [D.metanoga	4.1		DU145_cells, MCF7, LNCaP_cells	
	AA464698		ESTs; Weakly similar to bullous pemphigo	4.09		OVCAR_cells, Fibroblasts 2, Lu_SC_H69	
	R06273	HS.186467	ESTs; Moderately similar to IIII ALU SUB	4.09	•	OVCAR_cells, Lu_SC_H345, PRSC_con	
	H09570	HS.143032	ESTs; Weakly similar to neuronal thread	3.98		DU145_cells, OVCAR_cells, Lu_SC_H345	
	R46354		zinc finger protein 42 (myeloid-specific hemoglobin; gamma G	3.98		HT29_cells, MB231_cells, BT474_cells	
	H51652 Z38904		ESTs; Weakly similar to KIAA0970 protein	3.96		LU_SC_H69, OVCAR_cells, EB_cells	
	AA180356	Hs 73700	ESTS, Freely Situat to NAAUSTO PROJECT	3.94 3.94		HS578T_cells, EB_cells, PRSC_con	
	AA430629			3.93		293T_cells, MB-MDA-435s, A549_cells	
			interferon; alpha-inducible protein (clo	3.9		PC3_cells, A549_cells, OVCAR_cells CALU6_cells, EB_cells, Lu_SC_H69	
	AA194849			3.9		Lu_AD_H23, EB_cells, Lu_SC_H69	
	T33859		KIAA0365 gene product	3.89		293T_cells, DU145_cells, EB_cells	
		Hs.10669	ESTs; Moderately similar to KIAA0400 [H.	3.89		PC3_cells, HS578T_cells, DU145_cells	
105358	AA236034	Hs.25362	ESTs	3.89		Caco2, EB cells, CALU6 cells	
135106	AA599037	Hs.9456	SWVSNF related; matrix assocd; actin de	3.86		EB_cells, LNCaP_cells, Caco2	
106688	AA463215	Hs.29896	ESTs; Weakly similar to proline-rich pro	3.85		OVCAR cells, DU145 cells, EB cells	
132093	AA400091	Hs.39421	ESTs	3.85		OVCAR_cells, OVCAR_cells, LNCaP_cells	
	AA446990	Hs.103135		3.84		EB_cells, LNCaP_cells, OVCAR_cells	
	U48936		Human amiloride-sensitive epithelial sod	3.84		HT29_cells, BT474_cells, Lu_SC_H69	-
	T98288		ESTs; Weakly similar to IIII ALU SUBFAMI	3.82		DU145_cells, OVCAR_cells, LNCaP_cells	
	AA448710			3.82		DU145_cells, MB-MDA-453, Lu_SC_H69	
			EST; Weakly similar to IIII ALU SUBFAMIL	3.82		DU145_cells, DU145_cells, Lu_SC_H345	
	AA490830 Z41747			3.79		MB-MDA-453, CALU6_cells, EB_cells	
	D59894	Hs.469 Hs.34782	succinate dehydrogenase complex; subunit ESTs	3.78		DU145_cells, Fibrobiasts 2, Caco2	
	AA286906			3.75 2.75		LNCaP_cells, DU145_cells, EB_cells	
	U24683		Immunoglobulin heavy variable 4-4	3.75 3.73		OVCAR_cells, EB_cells, Lil_SC_H345	
	AA057518		ESTs	3.72		EB_cells, OVCAR_cells, 293T_cells 293T_cells, DU145_cells, EB_cells	
	W86779		DKFZP586B0319 protein	3.71		EB_cells, Caco2, DU145_cells	
	AA452590		ESTs	3.67		EB_cells, LNCaP_cells, 293T_cells	
	Z41592	Hs.22129	hypothetical protein	3.67		HT29_cells, Lu_SQ_H520, Lu_SQ_H520	
	J03764	Hs.82085	plasminogen activator inhibitor, type I	3.67	•	Fibroblasts 2, HS578T_cells, MB231_cells	
		Hs.175476	ESTs; Wealty similar to IIII ALU SUBFAMI	3.67		OVCAR_cells, LNCaP_cells, Lu_SC_H345	
	R21408	Hs.106095		3.66		OVCAR_cells, A549_cells, 293T_cells	
128336	Al242720	Hs.146043	ESTs; Wealty similar to alternatively sp	3.66		Lu_SC_H345, Caco2, OVCAR_cells	
130868	AA004900		ESTs; Wealthy smir to smir to glycerophos	3.61		EB_cells, HS578T_cells, LNCaP_cells	
	H44061	Hs.194026		3.6		Lu_SC_H345, OVCAR_cells, DU145_cells	
	Z46632	Hs.189	phosphodlesterase 4C; cAMP-specific (dun	3.6		Lu_SC_H69, Lu_AD_H23, Lu_SC_H345	
	AA485117 Z41038	Hs.469		3.6		293T_cells, MB231_cells, Fibroblasts 2	
	AA233231		succinate dehydrogenase complex; subunit ESTs	3.6		DU145_cells, HS578T_cells, CALU6_cells	
	AA808388			3.59 3.59		BT474_cells, MB231_cells, HT29_cells	
	AA608657	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ESTs; Moderately similar to III ALU SUB	3.59		Lu_SQ_H520, MB-MDA-435s, DU145_cells DU145 cells. OVCAR cells. LNC2P cells	
127917	AA211895	Hs.118831	EST; Highly similar to dJ1163J1.2.1 [H.s	3.58		Lu_SC_H345, OVCAR_cells, PRSC_con	_
105941	AA404427	Hs.10669	ESTs; Moderately similar to KIAA0400 [H.	3.58		PC3_cells, DU145_cells, HS578T_cells	
	R06108	Hs.135258		3.56		Lu_AD_H23, Lu_SQ_H520, Lu_AD_358	
		Hs.203772	FSHD region gene 1	3.56		DU145_ceils, EB_ceils, A549_ceils	
111168	N66951	Hs.238380	Human endogenous retroviral protease mRN	3.55		PC3_cells, EB_cells, MB231_cells	
		Hs.180780	H sapiens agrin precursor mRNA: partial	3.54		OVCAR_cells, DU145_cells, PC3_cells	
	U33821		Tax1 (human T-cell leukemla virus type I	3.53		MB231_cells, CALU6_cells, BT474_cells	
116562			ESTs	3.52		MB231_cells, BT474_cells, Lu_SC_H345	
126045			ESTS	3.51		DU145_cells, Lu_SC_H345, OVCAR_cells	
	AA465341			. 3.47		HT29_cells, OVCAR_cells, HMEC	
105220	AA210695	MS.1/212	ESTs	3.47		MB-MDA-435s, HT29_cells, HT29_cells	
	AA731636	Ha 04066	ESTs; Weakly similar to IIII ALU SUBFAMI	3.45	•	LNCaP_cells, DU145_cells, Lu_SC_H345	
112693	AAD63280	Hs.91065 Hs.35652	ESTs; Moderately similar to proliferatio ESTs	3.44		EB_cells, LNCaP_cells, DU145_cells	
128710	INAR42	Ha 104117	cytochrome P450; subfamily IIIA (niphedi	3.43		LNCaP_cells, CALU6_cells, 293T_cells	
131996	DSEGGE ANALO IO	Hs.36927	heat shock 105kD	3.41	•	HT29_cells, A549_cells, Fibroblasts 2	
119229			H sapiens (clone 104) refinoblastoma 1 g	3.4 3.4		EB_cells, PC3_cells, Lu_SC_H345	
128046	AA873285	Hs.137947	ESTs	3.39		DU145_cells, Liu_SC_H345, EB_cells EB_cells, LNCaP_cells, DU145_cells	
		Hs.25740	ESTs; Wealthy similar to ubiquitous TPR m	3.39		PC3_cells, MCF7, DU145_cells	
132349	Y00705	Hs.181286	serine protease inhibitor. Kazal type 1	3.38		Caco2, EB_cells, Lu_SC_H69	
101559	M32053		Human H19 RNA gene, complete cds	3.37		LIL_SC_H69, MCF7, OVCAR_cells	
	AA599011		troponin T1; skeletat; slow	3.36		DU145 cells, LNCaP cells, OVCAR cells	
				_		· Second more more than a contract of the	

	130641	AA182001	Hs.17155	ESTs	3.36	DU145_cells, MB-MDA-435s, HS578T_cells
		AA214615			3.33	HT29_cells, Fibroblasts 2, BT474_cells
				ESTs; Moderately similar to Illi ALU SUB	3.33	EB_cells, Fibroblasts 2, BT474_cells
				H saplens mRNA; cDNA DKFZp564J2116 (fin	m	3.32 LNCaP_cells, DU145_cells, EB_cells
		N64588	Hs.71252		3.32	DU145_cells, EB_cells, Caco2
		T64896	Hs.237992		3.32	Lu SC_H345, LNCaP_cells, Lu_SC_H69
		N75791		L-3-hydroxyacyl-Coenzyme A dehydrogenase		Caco2, EB_cells, OVCAR_cells
		AA621159			3,29	HS578T_cells, DU145_cells, PRSC_con
				KIAA1007 protein	3.29	EB_cets, Lu_AD_H23, Lu_AD_358
		N73838	Hs.15049		3.29	DU145_cells, EB_cells, HS578T_cells
		AA447971			3.28	A549 cells, OVCAR cells, PC3 cells
				Insulin-like growth factor 2 (somatomed)	3.28	Capo2, PRSC_con, PRSC_log
		H98670		ESTs; Weakly similar to hypothetical pro	3.28	PRSC Jog, CALU6 cells, OVCAR cells
				splicing factor (CC1.3)	3.28	EB_cells, LNCaP_cells, DU145_cells
		HG3227-H	115,140000	Guanine Nucleotide-Binding Protein Hsr1	3.27	EB_cells, RPWE_2, Lu_AD_H23
		AA132328	He 3688	acid-inducible phosphoprotein	3.26	EB_cells, DU145_cells, LNCaP_cells
		N39214		Ser-Thr protein kinase related to the my	3.26	LNCaP_cells, DU145_cells, MB-MDA-453
		R78604	Hs.101570		3.25	Lu AD H23, Lu SC H69, Lu SC H345
		W95117	Hs.193337		3.25	Lu_SC_H345, OVCAR_cells, Lu_SC_H69
				KIAA0603 gene product	3.24	Caco2, EB_cells, 293T_cells
		AA056731		Sjogren syndrome antigen A2 (60kD; ribon	3.24	CALU6_cells, OVCAR_cells, A549_cells
				ESTs; Weakly similar to IIII ALU SUBFAMI	3.24	A549_cells, CALU6_cells, 293T_cells
		AA041341			3.24	293T_cells, EB_cells, Caco2
				KIAA0594 protein	3.23	DU145_cells, OVCAR_cells, EB_cells
		Z38496			3.22	EB_cells, Caco2, Lu_SQ_H520
		N58045	Hs.142737 Hs.252748		3.22	LNCaP_cells, MB-MDA-435s, MB-MDA-453
		N26651			3.22	DU145_cells, EB_cells, OVCAR_cells
		AA490899				
		AA608588			3.21	DU145_cells, LNCaP_cells, OVCAR_cells = HS578T_cells, HMEC (total RNA), HMEC = _
		AA491465			3.2	
		T99544		ESTs; Weakly similar to III! ALU CLASS B	3.2	EB_cells, DU145_cells, Caco2 PC3 cells, Lu_SQ_H520, Lu_SC_H69
		F03934	Hs.104607		3.19	PC3 cells, DU145 cells, Lu_SQ_H520
		M27826		Human endogenous retroviral protease mRN		
		AA043551			3.18	EB_cells, Lu_SC_H345, DU145_cells BT474_cells, MB231_cells, HMEC
		H52617	Hs.144167		3.17	
		L12350		thrombospondin 2	3.17	Fibroblasts 2, PRSC_con, PRSC_log
		AA621367	H9.719683		3.17	293T_cells, Lu_SC_H345, CALU6_cells
		H89112	11- 400700	yw25e5.s1 Morton Fetal Cochiea H sapiens	3.16	OVCAR_cells, 293T_cells, EB_cells
		N32521	Hs.108738		3.16	EB_cells, Fibroblasts 2, MB231_cells
		J03242		insulin-like growth factor 2 (somatomedi	3.16	Caco2, PRSC_con, PRSC_log
		R80048		ESTs; Weakly similar to transporter prot	3.15	PC3_cells, EB_cells, OVCAR_cells
		H41529		ESTs; Highly similar to suffonyturea rec	3.15	Lu_SC_H345, PRSC_con, Lu_AD_H23
					3.15	OVCAR_cells, CALU6_cells, HS578T_cells
		T47546		tumor protein; translationally-controlle	3.15	EB_cells, PRSC_con, LNCaP_cells
		AA126719			3.14	LNCaP_cells, PC3_cells, EB_cells
		U37547	Hs.75263	apoptosis inhibitor 1	3.14	DU145_ceils, HS578T_ceils, LNCaP_ceils
		AA157814			3.13	EB_cells, HS578T_cells, LNCaP_cells
		AA286941			3.12	EB_cells, DU145_cells, 293T_cells
		AA086452			3.12	Lu_SQ_H520, Lu_AD_H23, PRSC_log
		AA456112			3.12	DU145_cells, OVCAR_cells, A549_cells
		AA608841			3.12	EB_cells, Caco2, DU145_cells
		R57419	Hs.7370	ESTs	3.11	HS578T_cells, 293T_cells, Caco2
				ESTs; Wealdy similar to hypothetical pro	3.11	OVCAR_ceils, Fibroblasts 2, Caco2
	116314	AA490588	Hs.43118	ESTS	3.11	EB_cells, MB-MDA-435s, HT29_cells
••	120562	AA280036	Hs.173912	eukaryotic translation initiation factor	3.11	LNCaP_cells, DU145_cells, EB_cells
	108770	AA127845	Hs.71027	EST	3.11	Lu_LC_H460, Lu_SC_H345, Lu_AD_358 -
		F02778		KIAA0876 protein	3.1	Lu_SC_H345, Lu_SC_H69, PRSC_log
				ESTs; Wealty similar to LIV-1 protein [H	3.09	Lu_AD_358, EB_cells, PC3_cells
		AA007218	Hs.60178	ESTs	3.07	Lu_SC_H345, CALU6_cells, Lu_SC_H69
		H99093	Hs.6179	H sapiens mRNA; cDNA DKFZp586K2322 (fr	om	3.07 293T_cells, MB-MDA-453, Caco2
	122314	AA442257	Hs.192076	ESTs	3.07	293T_cells, LNCaP_cells, PC3_cells
		R79299		ESTs; Moderately similar to IIII ALU SUB	3.07	293T_cells, DU145_cells, EB_cells
	115687	AA410508	Hs.183765	ESTs; Moderately smilr to ORF derived frm	3.06	Caco2, EB_cells, MB231_cells
		AA620390			3.06	Lu_SC_H345, LNCaP_cells, DU145_cells
	106483	AA451676	Hs.30299	IGF-II mRNA-binding protein 2	3.06	OVCAR_cells, HMEC (total RNA), HMEC
	133318	AA256168	Hs.70838	ESTs	3.05	OVCAR_cells, LNCaP_cells, 293T_cells
		N20979	Hs.1757	L1 cell adhesion molecule (hydrocephalus		
				thumbs) syndrome; spastic paraplegia 1)	3.05	MB231_cells, MCF7, CALU6_cells
	130797	AA430050	Hs.180948	KIAA0729 protein	3.05	EB_cells, DU145_cells, DU145_cells
		D79791	Hs.1073R1	ESTs; Weakly similar to F38A5.1 [C.elega	3.05	LNCaP_cells, HS578T_cells, Lu_SQ_H520
		AA252703			3.04	EB cells, Fibroblasts 2, PRSC con
		AA856990			3.03	OVCAR_cells, LNCaP_cells, 293T_cells
		AA504835			3.03	EB cells, OVCAR_cells, 293T_cells
		N34935		ESTs; Highly similar to ARF GTPase-activ	3.03	Lu_AD_358, MCF7, MB231_cells
		W37226	Hs.55573		3.01	293T_cells, HS578T_cells, CALU6_cells
		H99653	Hs.138618		3.01	Lu SC_H345, Lu_SC_H69, PRSC_log
		AA037357			3.01	OVCAR_cells, LNCaP_cells, DU145_cells
	120020	WW01301	110-100212	LUIS	J.U1	0. m = 7 00 140 7000

111018					
	8 N54067	Hs.3628	mitogen-activated protein kinase kinase	3.01	PC3 colle Coces? Elbroblacts?
		Hs.59403			PC3_cells, Cacco2, Fibroblasts 2
				3	LU_SC_H345, BT474_cells, LU_SC_H69
	AA203433		KIAA1014 protein	3	OVCAR_cells, 293T_cells, EB_cells
	5 H88359	HS.15539	nuclear factor (erythrold-derived 2)-lik	3	PRSC_con, EB_ceils, DU145_ceils
10/88	AAU25567	Hs.61273	H sapiens chromosome 19; cosmid R32611	3	LU_SQ_H520, MCF7, LU_AD_358
115589	D59570	Hs.17132	ESTs	3	EB_cells, A549_cells, HS578T_cells
105479	AA255548	Hs.23467	ESTs	2.99	Lu SC H345, PC3 cells, OVCAR cells
115560	AA393812	Hs 50575	ESTs; Moderately similar to IIII ALU SUB	2.99	
130166	AASSOCO	Hs 151411	KIAA0916 protein	2.98	EB_cells, Lu_SC_H69, Fibroblasts 2
123355	AA504773	Hs.160657	ECT-		LNCaP_cells, EB_cells, 293T_cells
400EAC	2 504440			2.98	PRSC_con, PRSC_log, PRSC_log
	F01449	Hs.26954	ESIS	2.97	Liu_SC_H345, HT29_cells, BT474_cells
123007	AAAABYA	HS.107812	ESTs; Wealty similar to proline-rich pro	2.97	EB_cells, Lij_AD_H23, Lij_AD_358
102255	U28369	Hs.82222	sema domain; immunoglobulin domain (lg);	2.97	EB_cells, MB231_cells, OVCAR_cells
105583	AA278907	Hs.24549	ESTs	2.96	EB_cells, DU145_cells, 293T_cells
131859	M90657	Hs.3337	transmembrane 4 superfamily member 1	2.96	A549_cells, PC3_cells, DU145_cells
114533	AA053401	Hs.177526	ESTs	2.96	293T_cells, Lu_LC_H460, PC3_cells
	H23543	Hs.27090		295	
	R91241		hypothetical protein; expressed in osteo		PRSC_log, Lu_SC_H345, MB231_cells
		Hs.220509	nyponicada promit, expresses in oses	2.95	Lu_SC_H345, Lu_SC_H69, PRSC_log
				2.94	HS578T_cells, 293T_cells, 293T_cells
	N73762	Hs.90638	ESIS	2.94	EB_cells, MB-MDA-453, Fibroblasts 2
121700	AA423968	HS.178113	ESTs; Moderately similar to kinesin like	2.94	HT29_cells, CALLU6_cells, HMEC
128530	AA504343	Hs.183475	H saplens clone 25061 mRNA seq	2.94	DU145_cells, Lu_SC_H345, Cacc2
128435	AI301201	Hs.147112	ESTs	2.93	EB cells, Lu SQ H520, PRSC con
	W15580	Hs.15342	phosphate cylidylyltransferase 1; cholin	2.93	EB_cells, Lu_AD_H23, PRSC_log
127569	AA588536	Hs.191783	ESTs	2.93	EB_cells, HS578T_cells, Lu_AD_358
	F04465	Hs 22394	ESTs; Wealthy similar to weak similarity		ED_0025 100101_0025 E0_00_000
			protein US)1 [C.elegans]	2.92	DC2 colle ED colle OVOAD colle
114615	AA083842	No 450456	DKFZP566F123 protein		PC3_cells, EB_cells, OVCAR_cells
126202	AA086320	15.135400		2.92	A549_cells, HS578T_cells, PRSC_con
		11- 444740	zn52d12.s1 Stratagene muscle 937209 H sa		Lu_SC_H69, Lu_SC_H345, EB_cells
	W84768	Hs.141742		2.92	DU145_cells, Fibroblasts 2, MCF7
	W27301	Hs. 187991	DKFZP564A122 protein	2.91	OVCAR_cells, DU145_cells, CALU6_cells
107772	AA018587	Hs.40515	ESTs; Wealdy similar to IIII ALU SUBFAMI	2.91	OVCAR cells, EB cells, PC3 cells
127159	AA284097	Hs.237955	RAB7; member RAS oncogene family	2.91	293T_cells, OVCAR_cells, PC3 cells
124792	R44357	Hs.132784	ESTs; Wealty similar to cDNA EST EMBL:TO		DU145_cells, DU145_cells, CALU6_cells
109751	F10210	Hs.6679	H sapiens mRNA; cDNA DKFZp586A0424 (fr	nm	
		Hs 107213	ESTs; Highly similar to NY-REN-6 antigen		
106637	AA450061	Hs.250824	ECT.	2.9	CALU6_cells, EB_cells, OVCAR_cells
	U84573			2.9	EB_cells, Caco2, MB-MDA-435s
		Hs.41270		2.9	DU145_cells, HS578T_cells, A549_cells
	AA905327	11 04004	ESTs	2.9	MCF7, HMEC (total RNA), 293T_ceils
	AA034947		ESTs	2.9	EB_cells, Lu_LC_H460, 293T_cells
126050	H27267	Hs.75860	hydroxyacyl-Coenzyme A dehydrogenase/3-k		•
			-Coenzyme A hydratase (trifunctional pro	2.89	LNCaP_cells, DU145_cells, OVCAR_cells
	F09780	Hs.66124	EST	2.89	CALU6_cells, 293T_cells, 293T_cells
135204	AA421146	Hs.183418	cell division cycle 2-like 1 (PITSLRE pr	2.89	PC3_cells, EB_cells, LNCaP_cells
134946	AA406534	Hs.193053	ESTs; Wealthy similar to hiwi [H.sapiens]	2.88	EB_cells, LNCaP_cells, Caco2
114975	AA250850	Hs.13944	adrenergic; beta; receptor kinase 2	2.88	
	W35212		ESTs; Wealdy similar to env protein IH.s		ED solle ED solle ED solle
		He 17691			EB_cells, EB_cells
102322		Hs.17691	COLOR COCCESS PARTIES IN SUA PLOSES PATS	2.88	MB-MDA-435s, Lil_SC_H69, CALU6_cells
	U34962	Hs.54473	cardiac-specific homeo box	2.88	MB-MDA-435s, Lu_SC_H69, CALU6_cells 293T_cells, HT29_cells, Lu_AD_H23
125642	U34962 A1096849	Hs.54473 Hs.25274	cardiac-specific homeo box ESTs; Moderately similar to putative sev	2.88 2.88	MB-MDA-435s, Lu_SC_H69, CALU6_ceils 293T_ceils, HT29_ceils, Lu_AD_H23 PC3_ceils, CALU6_ceils, 293T_ceils
125642 100288	U34962 A1096849 D43951	Hs.54473 Hs.25274 Hs.153834	cardiac-specific homeo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene: complete	2.88 2.88 :2.88	MB-MDA-435s, Lu_SC_H69, CALU6_cells 293T_cells, HT29_cells, Lu_AD_H23
125642 100288 105878	U34962 A1096849 D43951 AA400184	Hs.54473 Hs.25274 Hs.153834 Hs.24656	cardiac-specific homeo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete KIAA0907 protein	2.88 2.88	MB-MDA-435s, Lu_SC_H69, CALU6_ceils 293T_ceils, HT29_ceils, Lu_AD_H23 PC3_ceils, CALU6_ceils, 293T_ceils
125642 100288 105878 125262	U34962 A1096849 D43951 AA400184 W88755	Hs.54473 Hs.25274 Hs.153834 Hs.24656 Hs.108514	cardiac-specific homeo box ESTs; Moderately similar to pulative sev Human mRNA for KIAA0099 gene; complete ( KIAA0907 protein ESTs: Highly similar to Trio (H.sanlens)	2.88 2.88 :2.88	MB-MDA-435s, Lu_SC_H69, CALU6_ceils 293T_ceils, H729_ceils, Lu_AD_H23 PC3_ceils, CALU6_ceils, 293T_ceils 293T_ceils, LNCaP_ceils, EB_ceils OVCAR_ceils, DU145_ceils, 293T_ceils
125642 100288 105878 125262 114419	U34962 Al096849 D43951 AA400184 W88755 AA011448	Hs.54473 Hs.25274 Hs.153834 Hs.24656 Hs.108514	cardiac-specific homeo box ESTs; Moderately similar to pulative sev Human mRNA for KIAA0099 gene; complete ( KIAA0907 protein ESTs: Highly similar to Trio (H.sanlens)	2.88 2.88 :2.88 2.88 2.88	MB-MDA-435s, Lu_SC_H69, CALU6_cells 293T_cells, HT29_cells, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells 293T_cells, LNCaP_cells, EB_cells OVCAR_cells, DU145_cells, 293T_cells DU145_cells, HS578T_cells, MB231_cells
125642 100288 105878 125262 114419 130639	U34962 Al096849 D43951 AA400184 W88755 AA011448 D59711	Hs.54473 Hs.25274 Hs.153834 Hs.24656 Hs.108514 Hs.106532 Hs.17132	cardiac-specific horneo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete ( KIAA0907 protein ESTs; Highly similar to Trio [H.saplens] ESTs; Weakly similar to transposon LRE2 ESTs	2.88 2.88 2.88 2.88 2.88 2.88 2.88	MB-MDA-435s, Lu_SC_H69, CALU6_ceils 293T_ceils, HT29_ceils, Lu_AD_H23 PC3_ceils, CALU6_ceils, 293T_ceils 293T_ceils, LNC6_ceils, EB_ceils OVCAR_ceils, DU145_ceils, 293T_ceils DU145_ceils, HS578T_ceils, MB231_ceils EB_ceils, Lu_AD_H23, Fibroblasts 2
125642 100288 105878 125262 114419 130639	U34962 Al096849 D43951 AA400184 W88755 AA011448 D59711	Hs.54473 Hs.25274 Hs.153834 Hs.24656 Hs.108514 Hs.106532 Hs.17132	cardiac-specific horneo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete ( KIAA0907 protein ESTs; Highly similar to Trio [H.saplens] ESTs; Weakly similar to transposon LRE2 ESTs	2.88 2.88 2.88 2.88 2.88 2.88 2.88	MB-MDA-435s, Lu_SC_H69, CALU6_ceils 293T_ceils, HT29_ceils, Lu_AD_H23 PC3_ceils, CALU6_ceils, 293T_ceils 293T_ceils, LNCaP_ceils, EB_ceils OVCAR_ceils, DU145_ceils, 293T_ceils DU145_ceils, HS578T_ceils, MB231_ceils EB_ceils, Lu_AD_H23, Fibroblasts 2 EB_ceils, A549_ceils, OVCAR_ceils
125642 100288 105878 125262 114419 130639 130972	U34962 Al096849 D43951 AA400184 W88755 AA011448 D59711	Hs.54473 Hs.25274 Hs.153834 Hs.24656 Hs.108514 Hs.106532 Hs.17132 Hs.21739	cardiac-specific homeo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete of KIAA0907 protein ESTs; Highly similar to Trio [H.saplens] ESTs; Weakly similar to transposon LRE2 ESTs H saplens mRNA; cDNA DKFZo58611518 (fro	2.88 2.88 2.88 2.88 2.88 2.88 2.87	MB-MDA-435s, Lu_SC_H69, CALU6_ceils 293T_ceils, HT29_ceils, Lu_AD_H23 PC3_ceils, CALU6_ceils, 293T_ceils 293T_ceils, LNCaP_ceils, EB_ceils OVCAR_ceils, DU145_ceils, 293T_ceils DU145_ceils, HS578T_ceils, MB231_ceils EB_ceils, Lu_AD_H23, Fibroblasts 2 EB_ceils, A549_ceils, OVCAR_ceils 287 293T_ceils, A549_ceils, Lu_LC_H460
125642 100288 105878 125262 114419 130639 130972 126906	U34962 Al096849 D43951 AA400184 W88755 AA011448 D59711 AA370302 H66949	Hs.54473 Hs.25274 Hs.153834 Hs.24656 Hs.108514 Hs.106532 Hs.17132 Hs.21739 Hs.168089	cardiac-specific horneo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete ( KIAA0907 protein ESTs; Highly similar to Trio [H.saplens] ESTs; Weakly similar to transposon LRE2 ESTs Highly similar to transposon LRE2 ESTs Highly similar to CAI CILINARINDING	2.88 2.88 2.88 2.88 2.88 2.88 2.88	MB-MDA-435s, Lu_SC_H69, CALU6_ceils 293T_ceils, HT29_ceils, Lu_AD_H23 PC3_ceils, CALU6_ceils, 293T_ceils 293T_ceils, LNCaP_ceils, EB_ceils OVCAR_ceils, DU145_ceils, 293T_ceils DU145_ceils, HS578T_ceils, MB231_ceils EB_ceils, Lu_AD_H23, Fibroblasts 2 EB_ceils, A549_ceils, OVCAR_ceils
125642 100288 105878 125262 114419 130639 130972 126906	U34962 Al096849 D43951 AA400184 W88755 AA011448 D59711 AA370302 H66949	Hs.54473 Hs.25274 Hs.153834 Hs.24656 Hs.108514 Hs.106532 Hs.17132 Hs.21739 Hs.168089	cardiac-specific horneo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete ( KIAA0907 protein ESTs; Highly similar to Trio [H.saplens] ESTs; Weakly similar to transposon LRE2 ESTs H saplens mRNA; cDNA DKFZp586H518 (fro ESTs; Highly similar to CALCIUM-BINDING H saplens Mut S homotog 5 gene; partial	2.88 2.88 2.88 2.88 2.88 2.88 2.87 m 2.87	MB-MDA-435s, Lu_SC_H69, CALU6_cells 233T_cells, HT29_cells, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells 233T_cells, LNCaP_cells, EB_cells OVCAR_cells, DU145_cells, 293T_cells DU145_cells, HS578T_cells, MB231_cells EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, A549_cells, OVCAR_cells 287 293T_cells, A549_cells, Lu_LC_H460 Lu_SC_H345, Lu_SC_H69, LNCaP_cells
125642 100288 105878 125262 114419 130639 130972 126906 121807	U34962 AI096849 D43951 AA400184 W88755 AA011448 D59711 AA370302 H66949 AA424507	Hs.54473 Hs.25274 Hs.153834 Hs.24656 Hs.106532 Hs.17132 Hs.21739 Hs.168069 Hs.247478	cardiac-specific horneo box ESTs; Moderately similar to putative sew Human mRNA for KIAA0099 gene; complete ( KIAA0907 protein ESTs; Highly similar to Trio [H.saplens] ESTs; Weakly similar to transposon LRE2 ESTs H saplens mRNA; cDNA DKFZp586H518 (fro ESTs; Highly similar to CALCIUM-BINDING H saplens Mut S homotog 5 gene; partial 107; LST-1; hymohodoin beta: hymor necr	2.88 2.88 2.88 2.88 2.88 2.88 2.87 m 2.87	MB-MDA-435s, Lu_SC_H69, CALU6_cells 293T_cells, HT29_cells, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells 293T_cells, LNCaP_cells, EB_cells OVCAR_cells, DU145_cells, 293T_cells DU145_cells, HS578T_cells, MB231_cells EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, A549_cells, OVCAR_cells 287 293T_cells, A549_cells, Lu_LC_H469 Lu_SC_H345, Lu_SC_H69, LNCaP_cells Lu_SC_H69, HT29_cells, RPWE_2
125642 100288 105878 125262 114419 130639 130972 126906 121807	U34962 AI096849 D43951 AA400184 W88755 AA011448 D59711 AA370302 H66949 AA424507 AA255440	Hs.54473 Hs.25274 Hs.153834 Hs.24656 Hs.108514 Hs.106532 Hs.17132 Hs.21739 Hs.168089 Hs.247478 Hs.219614	cardiac-specific horneo box ESTs; Moderately similar to pulative sew Human mRNA for KIAA0099 gene; complete of KIAA0907 protein ESTs; Highly similar to Trio [H.saplens] ESTs; Wealdy similar to transposon LRE2 ESTs H saplens mRNA; cDNA DKFZp58611518 (fro ESTs; Highly similar to CALCIUM-BINDING H saplens MRNA to homotog 5 gene; partial 1C7; LST-1; lymphotoxin beta; turnor neor F-box protein FBL11	2.88 2.88 2.88 2.88 2.88 2.88 2.87 m 2.87 2.87	MB-MDA-435s, Lu_SC_H69, CALU6_ceils 293T_ceils, HT29_ceils, Lu_AD_H23 PC3_ceils, CALU6_ceils, 293T_ceils 293T_ceils, LNCaP_ceils, EB_ceils OVCAR_ceils, DU145_ceils, 293T_ceils DU145_ceils, HS578T_ceils, MB231_ceils EB_ceils, Lu_AD_H23, Fibroblasts 2 EB_ceils, A549_ceils, OVCAR_ceils 287 293T_ceils, A549_ceils, Lu_LC_H460 Lu_SC_H345, Lu_SC_H69, LNCaP_ceils Lu_SC_H345, Lu_SC_H69, LNCaP_ceils Lu_SC_H69, HT29_ceils, RPWE_2 Lu_AD_H23, Caco2, EB_ceils
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125642 100288 105878 125262 114419 130639 130972 126906 121807 105474 122348 116368	U34962 Al096849 D43951 AA400184 W88755 AA011448 D59711 AA370302 H66949 AA424507 AA255440 AA443695 AA521186	Hs.54473 Hs.25274 Hs.153834 Hs.108514 Hs.106532 Hs.21739 Hs.168069 Hs.247478 Hs.219614 Hs.231476 Hs.231476	cardiac-specific horneo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete ( KIAA0907 protein ESTs; Highly similar to Trio [H.saplens] ESTs; Weakly similar to transposon LRE2 ESTs H saplens mRNA; cDNA DKFZp586H518 (fro ESTs; Highly similar to CALCIUM-BINDING H saplens Mut S homotog 5 gene; partial 1C7; LST-1; lymphotoxin beta; tumor necr F-box protein FBL11 ESTs ESTs	2.88 2.88 2.88 2.88 2.88 2.88 2.87 m 2.87 2.87 2.87 2.87 2.87 2.87	MB-MDA-435s, Lu_SC_H69, CALU6_ceils 293T_ceils, HT29_ceils, Lu_AD_H23 PC3_ceils, CALU6_ceils, 293T_ceils 293T_ceils, LNCaP_ceils, EB_ceils OVCAR_ceils, DU145_ceils, 293T_ceils DU145_ceils, HS578T_ceils, MB231_ceils EB_ceils, Lu_AD_H23, Fibroblasts 2 EB_ceils, A549_ceils, OVCAR_ceils 287 293T_ceils, A549_ceils, Lu_LC_H460 Lu_SC_H345, Lu_SC_H69, LNCaP_ceils Lu_SC_H345, Lu_SC_H69, LNCaP_ceils Lu_SC_H69, HT29_ceils, RPWE_2 Lu_AD_H23, Caco2, EB_ceils
125642 100288 105878 125262 114419 130639 130972 126906 121807 105474 122348 116368 135143	U34962 AI096849 D43951 AA400184 W88755 AA011448 D59711 AA370302 H66949 AA424507 AA255440 AA43695 AA521186 AA102644	Hs.54473 Hs.25274 Hs.153834 Hs.24656 Hs.108514 Hs.106532 Hs.21739 Hs.168089 Hs.247478 Hs.231476 Hs.231476 Hs.94217 Hs.69559	cardiac-specific horneo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete ( KIAA0907 protein ESTs; Highly similar to Trio [H.saplens] ESTs; Wealdy similar to transposon LRE2 ESTs H saplens mRNA; cDNA DKFZp586H518 (fro ESTs; Highly similar to CALCIUMBINDING H saplens Mut S hornotog 5 gene; partial 1C7; LST-1; lymphotoxin beta; turnor necr F-box protein FBL11 ESTs ESTs ESTs KIAA1096 protein	2.88 2.88 2.88 2.88 2.88 2.87 m 2.87 2.87 2.87 2.87 2.87 2.87	MB-MDA-435s, Lu_SC_H69, CALU6_ceils 293T_ceils, HT29_ceils, Lu_AD_H23 PC3_ceils, CALU6_ceils, 293T_ceils 293T_ceils, LNCaP_ceils, EB_ceils OVCAR_ceils, DU145_ceils, 293T_ceils DU145_ceils, DU145_ceils, 293T_ceils DU145_ceils, HS578T_ceils, MB231_ceils EB_ceils, Lu_AD_H23, Fibroblasts 2 EB_ceils, A549_ceils, OVCAR_ceils 287 293T_ceils, A549_ceils, Lu_LC_H460 Lu_SC_H345, Lu_SC_H69, LNCaP_ceils Lu_SC_H69, HT29_ceils, RPWE_2 Lu_AD_H23, Caco2, EB_ceils HT29_ceils, Lu_SC_H69, BT474_ceils
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125642 100288 105878 125262 114419 130639 130972 126906 121807 105474 122348 116368 135143 106711 128583	U34962 A1096849 D43951 AA400184 W88755 AA011448 D59711 AA370302 H66949 AA424507 AA255440 AA443695 AA521186 AA102644 AA464741 L32832	Hs.54473 Hs.25274 Hs.153834 Hs.24656 Hs.108514 Hs.106532 Hs.21739 Hs.168089 Hs.247478 Hs.231476 Hs.231476 Hs.94217 Hs.69559 Hs.143187 Hs.101842	cardiac-specific horneo box ESTs; Moderately similar to putative sew Human mRNA for KIAA0099 gene; complete ( KIAA0907 protein ESTs; Highly similar to Trio [H.saplens] ESTs; Weakly similar to transposon LRE2 ESTs H saplens mRNA; cDNA DKFZp586H518 (fro ESTs; Highly similar to CALCIUM-BINDING H saplens Mut S homotog 5 gene; partial 1C7; LST-1; lymphotoxin beta; turnor neor F-box protein FBL11 ESTs ESTs KIAA1096 protein Human DNA from chromosome 19-specific co AT-bloding transcription factor: 1	2.88 2.88 2.88 2.88 2.88 2.87 m 2.87 2.87 2.87 2.87 2.87 2.87	MB-MDA-435s, Lu_SC_H69, CALU6_cells 293T_cells, HT29_cells, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells 293T_cells, LNCaP_cells, EB_cells OVCAR_cells, DU145_cells, 293T_cells DU145_cells, HS578T_cells, MB231_cells EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, A549_cells, OVCAR_cells 287 293T_cells, A549_cells, Lu_LC_H469 Lu_SC_H345, Lu_SC_H69, LNCaP_cells Lu_SC_H345, Lu_SC_H69, ENVE_2 Lu_AD_H23, Caco2, EB_cells HT29_cells, Lu_SC_H69, BT474_cells MB-MDA-453, OVCAR_cells, Lu_SC_H69 PC3_cells, EB_cells, 293T_cells EB_cells, Lu_AD_H23, Lu_LC_H460
125642 100288 105878 125262 114419 130639 130972 126906 121807 105474 122348 116368 135143 106711 128583 132139	U34962 Al096849 D43951 AA400184 W88755 AA011448 D59711 AA370302 H66949 AA424507 AA255440 AA443695 AA521186 AA102644 AA464741 L32832 AA213410	Hs.54473 Hs.25274 Hs.153834 Hs.108514 Hs.106532 Hs.21739 Hs.168069 Hs.247478 Hs.219614 Hs.231476 Hs.94217 Hs.69559 Hs.143187 Hs.101842 Hs.111554	cardiac-specific horneo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete ( KIAA0907 protein ESTs; Highly similar to Trio [H.saplens] ESTs; Highly similar to transposon LRE2 ESTs H saplens mRNA; cDNA DKFZp58611518 (fro ESTs; Highly similar to CALCIUM-BINDING H saplens Mut S homotog 5 gene; partial 1C7; LST-1; lymphotoxin beta; tumor necr F-box protein FBL11 ESTs ESTs KIAA1096 protein Human DNA from chromosoma 19-specific co AT-binding transcription factor 1 ADP-ribosytation factor-fice 7	2.88 2.88 2.88 2.88 2.88 2.87 m 2.87 2.87 2.87 2.87 2.86 2.86 2.86 2.86 2.86 2.86	MB-MDA-435s, Lu_SC_H69, CALU6_cells 293T_cells, HT29_cells, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells 293T_cells, LNCaP_cells, EB_cells OVCAR_cells, DU145_cells, 293T_cells DU145_cells, HS578T_cells, MB231_cells EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, A549_cells, OVCAR_cells 287 293T_cells, A549_cells, Lu_LC_H469 Lu_SC_H345, Lu_SC_H69, LNCaP_cells Lu_SC_H345, Lu_SC_H69, LNCaP_cells HT29_cells, Lu_SC_H69, BT474_cells MB-MDA-453, OVCAR_cells, Lu_SC_H69 PC3_cells, Lu_AD_H23, Lu_SC_H60 LNCaP_cells, Lu_AD_H23, Lu_LC_H460 LNCaP_cells, Caco2, EB_cells
125642 100288 105878 125262 114419 130639 130972 126906 121807 105474 122348 116368 135143 106711 128583 132139	U34962 Al096849 D43951 AA400184 W88755 AA011448 D59711 AA370302 H66949 AA424507 AA255440 AA443695 AA521186 AA102644 AA464741 L32832 AA213410	Hs.54473 Hs.25274 Hs.153834 Hs.108514 Hs.106532 Hs.21739 Hs.168069 Hs.247478 Hs.219614 Hs.231476 Hs.94217 Hs.69559 Hs.143187 Hs.101842 Hs.111554	cardiac-specific horneo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete ( KIAA0907 protein ESTs; Highly similar to Trio [H.saplens] ESTs; Highly similar to transposon LRE2 ESTs H saplens mRNA; cDNA DKFZp58611518 (fro ESTs; Highly similar to CALCIUM-BINDING H saplens Mut S homotog 5 gene; partial 1C7; LST-1; lymphotoxin beta; tumor necr F-box protein FBL11 ESTs ESTs KIAA1096 protein Human DNA from chromosoma 19-specific co AT-binding transcription factor 1 ADP-ribosytation factor-fice 7	2.88 2.88 2.88 2.88 2.88 2.87 m 2.87 2.87 2.87 2.87 2.86 2.86 2.86 2.86 2.85 2.85 2.85	MB-MDA-435s, Lu_SC_H69, CALU6_cells 293T_cells, HT29_cells, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells 293T_cells, LNCaP_cells, EB_cells OVCAR_cells, DU145_cells, 293T_cells DU145_cells, HS578T_cells, MB231_cells EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, Ls_AD_H23, Fibroblasts 2 EB_cells, A549_cells, OVCAR_cells 287 293T_cells, A549_cells, Lu_LC_H460 Lu_SC_H345, Lu_SC_H69, LNCaP_cells Lu_SC_H345, Lu_SC_H69, LNCaP_cells HT29_cells, Lu_SC_H69, BT474_cells HT29_cells, Lu_SC_H69, BT474_cells MB-MDA-453, OVCAR_cells, Lu_SC_H69 PC3_cells, EB_cells, 293T_cells EB_cells, Lu_AD_H23, Lu_LC_H460 LNCaP_cells, Caco2, EB_cells A549_cells, HS578T_cells, Caco2
125642 100288 105878 125262 114419 130639 130972 126906 121807 105474 122348 116368 135143 106711 128583 132139 114484	U34962 AI096849 D43951 AA400184 W88755 AA011448 D59711 AA370302 H66949 AA424507 AA255440 AA443695 AA521186 AA102644 AA464741 L32832 AA213410 AA034378	Hs.54473 Hs.25274 Hs.153834 Hs.108514 Hs.106532 Hs.21739 Hs.168069 Hs.247478 Hs.219614 Hs.231476 Hs.94217 Hs.69559 Hs.143187 Hs.101842 Hs.111554 Hs.252331	cardiac-specific horneo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete of KIAA0907 protein ESTs; Highly similar to Trio [H-saplens] ESTs; Weakly similar to transposon LRE2 ESTs H saplens mRNA; cDNA DKFZp586H518 (fro ESTs; Highly similar to CALCIUM-BINDING H saplens Mut S homotog 5 gene; partial 1C7; LST-1; lymphotoxin beta; tumor necr F-box protein FBL11 ESTs ESTs KIAA1096 protein Human DNA from chromosome 19-specific co AT-binding transcription factor 1 ADP-ribosytation factor-fike 7 HERV+H LTR-associating 2	2.88 2.88 2.88 2.88 2.88 2.87 2.87 2.87	MB-MDA-435s, Lu_SC_H69, CALU6_cells 233T_cells, HT29_cells, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells 233T_cells, LNCaP_cells, EB_cells OVCAR_cells, DU145_cells, 293T_cells OU145_cells, HS578T_cells, MB231_cells EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, A549_cells, OVCAR_cells 287 293T_cells, A549_cells, Lu_SC_H69, LNCaP_cells Lu_SC_H345, Lu_SC_H69, LNCaP_cells Lu_SC_H69, HT29_cells, RPWE_2 Lu_AD_H23, Cacc2, EB_cells HT29_cells, Lu_SC_H69, BT474_cells MB-MDA-453, OVCAR_cells, Lu_SC_H69 PC3_cells, EB_cells, Lu_SC_H69 LNCaP_cells, Lu_AD_H23, Lu_LC_H460 LNCaP_cells, Cacc2, EB_cells A549_cells, HS578T_cells, Cacc2 PC3_cells, Lu_SC_H520, MB231_cells
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125642 100288 105878 125262 114419 130639 130972 126906 121807 105474 122348 116368 135143 136711 128583 132139 114484 124520 100403 129795 128258 102662 132232 132331 106711 123953	U34962 A1096849 D43951 AA400184 W88755 AA011448 D59711 AA370302 H66949 AA424507 AA255440 AA43695 AA521186 AA102644 AA464741 L32832 AA213410 AA034378 N74051 D85527 AA448627 T70214 U70321 AA252030 AA421638 C13961 AA59895	Hs.54473 Hs.25274 Hs.153834 Hs.108514 Hs.106532 Hs.17132 Hs.1668089 Hs.247478 Hs.231476 Hs.231476 Hs.231476 Hs.94217 Hs.69559 Hs.143187 Hs.101842 Hs.111554 Hs.194092 Hs.125163 Hs.183548 Hs.130227 Hs.42640 Hs.6451 Hs.6951 Hs.6951 Hs.6951 Hs.42610115 Hs.98988	cardiac-specific horneo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete of KIAA0907 protein ESTs; Highly similar to Trio [H-saplens] ESTs; Weakly similar to transposon LRE2 ESTs H saplens mRNA; cDNA DKFZp586H518 (fro ESTs; Highly similar to CALCIUM-BINDING H saplens MMt S hornolog 5 gene; partial 1C7; LST-1; lymphotoxin beta; turnor necr F-box protein FBL11 ESTs ESTs KIAA1096 protein Human DNA from chromosome 19-specific co AT-binding transcription factor 1 ADP-rhosylation factor-like 7 HERV-H LTR-associating 2 ESTs; Weakly similar to IIII ALU SUBFAMI H saplens mRNA for LIM domain, partial c ESTs; Weakly similar to IIII ALU SUBFAMI ESTs turnor necrosis factor receptor superfami ESTs ESTs ESTs EST	2.88 2.88 2.88 2.88 2.88 2.87 2.87 2.87	MB-MDA-435s, Lu_SC_H69, CALU6_cells 293T_cells, HT29_cells, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells 293T_cells, LNCaP_cells, EB_cells OVCAR_cells, DU145_cells, 293T_cells DU145_cells, HS578T_cells, MB231_cells EB_cells, Li_AD_H23, Fibroblasts 2 EB_cells, Li_AD_H23, Fibroblasts 2 EB_cells, A549_cells, OVCAR_cells 287 293T_cells, A549_cells, Lu_LC_H469 Lu_SC_H345, Lu_SC_H69, LNCaP_cells Lu_SC_H345, Lu_SC_H69, LNCaP_cells HT29_cells, Hu_SC_H69, BT474_cells MB-MDA-453, OVCAR_cells, Lu_SC_H69 PC3_cells, Lu_CC_H69, BT474_cells EB_cells, Lu_AD_H23, Lu_LC_H460 LNCaP_cells, Caco2, EB_cells A549_cells, Caco2, EB_cells A549_cells, Lu_SC_H50, MB231_cells Lu_SC_H345, MB231_cells, Fibroblasts 2 Lu_SC_H345, MB231_cells, Fibroblasts 2 Lu_SC_H345, OVCAR_cells, PC3_cells DU145_cells, Lu_AD_J33, Ma231_cells EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, Lu_AD_H23, EB_Cells, Lu_AD_H245 EB_cells, Lu_AD_H245
125642 100288 105878 125267 114419 130639 130972 126906 121807 105474 122348 116368 135143 106713 128583 132139 114484 124620 100403 129795 128258 102662 132232 106111 123963 122783	U34962 A1096849 D43951 AA400184 W88755 AA011448 D59711 AA370302 H66949 AA424507 AA255440 AA43695 AA521186 AA102644 AA464741 L32832 AA213410 AA034378 N74051 D85527 AA448627 T70214 U70321 AA252030 AA421638 C13961 AA59895	Hs.54473 Hs.25274 Hs.153834 Hs.108514 Hs.106532 Hs.17132 Hs.1668089 Hs.247478 Hs.249614 Hs.231476 Hs.94217 Hs.94217 Hs.94217 Hs.94217 Hs.101842 Hs.111554 Hs.11554 Hs.152351 Hs.125163 Hs.183548 Hs.130227 Hs.46451 Hs.6551 Hs.210115	cardiac-specific horneo box ESTs; Moderately similar to putative sev Human mRNA for KIAA0099 gene; complete of KIAA0907 protein ESTs; Highly similar to Trio [H-saplens] ESTs; Weakly similar to transposon LRE2 ESTs H saplens mRNA; cDNA DKFZp586H518 (fro ESTs; Highly similar to CALCIUM-BINDING H saplens MMt S hornolog 5 gene; partial 1C7; LST-1; lymphotoxin beta; turnor necr F-box protein FBL11 ESTs ESTs KIAA1096 protein Human DNA from chromosome 19-specific co AT-binding transcription factor 1 ADP-rhosylation factor-like 7 HERV-H LTR-associating 2 ESTs; Weakly similar to IIII ALU SUBFAMI H saplens mRNA for LIM domain, partial c ESTs; Weakly similar to IIII ALU SUBFAMI ESTs turnor necrosis factor receptor superfami ESTs ESTs ESTs EST	2.88 2.88 2.88 2.88 2.88 2.87 2.87 2.87	MB-MDA-435s, Lu_SC_H69, CALU6_cells 233T_cells, HT29_cells, Lu_AD_H23 PC3_cells, CALU6_cells, 293T_cells 293T_cells, LNCaP_cells, EB_cells OVCAR_cells, DU145_cells, 293T_cells DU145_cells, HS578T_cells, MB231_cells EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, A549_cells, OVCAR_cells 287 293T_cells, A549_cells, Lu_LC_H469 Lu_SC_H345, Lu_SC_H69, LNCaP_cells Lu_SC_H345, Lu_SC_H69, LNCaP_cells HT29_cells, Lu_SC_H69, BT474_cells MB-MDA-453, OVCAR_cells, Lu_SC_H69 PC3_cells, EB_cells, 233T_cells EB_cells, Lu_AD_H23, Lu_LC_H460 LNCaP_cells, Caco2, EB_cells A549_cells, Caco2, EB_cells A549_cells, Lu_SC_H69, BF201_cells Lu_SC_H345, MB231_cells, Fibroblasts 2 Lu_AD_358, Lu_AD_358, MB231_cells Lu_SC_H345, OVCAR_cells, PC3_cells DU145_cells, DU145_cells, PC3_cells EB_cells, Lu_AD_H23, Fibroblasts 2 EB_cells, UAD_H23, Fibroblasts 2 EB_cells, Lu_AD_H23, Fibroblasts 2

120823	AA347546	Hs.185780	ESTs	2.82	HT29_cells, HMEC (total RNA), BT474_cells
100378	D80009	Hs.10848	KIAA0187 gene product	2.82	Caco2, PC3_cells, OVCAR_cells
114677	AA114163	Hs.188877	ESTs	2.81	DU145_ceils, MCF7, EB_ceils
108085	AA045602	Hs.62863	ESTs; Moderately similar to serine/threo	2.81	EB_cells, Lu_AD_H23, HT29_cells
104938	AA064627	Hs.18341	ESTs; Highly similar to CGI-72 protein [	2.81	PC3_cells, HS578T_cells, OVCAR_cells
128743	AA237013		heterogeneous nuclear ribonucleoprotein	2.8	OVCAR_cells, LNCaP_cells, Caco2
124314	H94877	Hs.215766	GTP-binding protein	2.8	LNCaP_ceils, DU145_ceils, Caco2
134227	D79986	Hs.80338	KIAA0164 gene product	2.8	LNCaP_cells, A549_cells, EB_cells
122922	AA476268		zw44h1.s1 Soares_total_fetus_Nb2HF8_9w h	1	•
			contains Alu repetitive element;contain	2.79	Lu_SC_H345, OVCAR_cells, Lu_SC_H69
126096	H42968	Hs.155606	paired mesoderm homeo box 1	2.78	Lu_AD_H23, Lu_SC_H69, Lu_LC_H460
129295	AA424782	Hs.110121	SEC7 homolog	2.78	Lu_AD_H23, EB_cells, Lu_SC_H345
116155	AA460957	Hs.76053	DEAD/H (Asp-Glu-Ala-Asp/His) box polypep	2.78	EB_cells, OVCAR_cells, 293T_cells
105911	AA401809	Hs.189910	ESTs	277	293T_cells, HS578T_cells, DU145_cells
	T03475	Hs.258624		2.77	EB_cells, Lu_AD_H23, Lu_AD_358
131168	AA482007	Hs.23788	ESTs; Wealdy similar to homology with is	2.77	EB_cells, Lu_LC_H460, MCF7
106048	AA416697			2.76	OVCAR_cells, Lu_SC_H345, 293T_cells
	N21626	Hs.102406		2.76	MCF7, MB-MDA-453, CALU6_cells
129349	D86974	Hs.110613	KIAA0220 protein	2.76	DU145_cells, HT29_cells, Lu_SC_H69
	AA423808	Hs.8765	RNA helicase-related protein	2.76	OVCAR_cells, EB_cells, 293T_cells
	HG2755-H		T-Plastin	2.75	293T_cells, PC3_cells, HS578T_cells
	U60521		caspase 9; apoptosis-related cysteine pr	2.75	Lu_AD_358, Lu_SC_H69, Lu_SC_H345
	R44789	Hs.119486	ESTs; Weakly similar to rostral cerebell	2.75	Lu_SC_H69, Lu_SC_H345, BT474_cells
	Z43709		HSC1JA091 normalized infant brain cDNA H	2.75	Caco2, A549_cells, HT29_cells
	AA480074		adrenomedullin	2.75	EB_ceils, OVCAR_ceils, DU145_ceils
108888	AA135608		ESTs; Wealdy similar to IIII ALU SUBFAMI	2.75	OVCAR_cells, LNCaP_cells, DU145_cells
	W42429	Hs.150607		2.74	293T_ceils, DU145_ceils, PC3_ceils
	D83777	Hs.75137		2.74	CALU6_cells, DU145_cells, Caco2
			HERV-H LTR-associating 2	2.74	PC3_cells, Lu_SQ_H520, RPWE_2
129092	AA011243	Hs.63525	poly(rC)-binding protein 2	2.74	EB_cells, MCF7, DU145_cells
	AA677978			2.74	Lu_AD_358, Lu_AD_358, PRSC_log
107874	AA025305	Hs.25218	ESTs; Weakly similar to reverse transcri	274	Lu_SC_H345, Lu_LC_H460, HT29_cells
	Z38266	Hs.12770	H saplens PAC clone DJ0777O23 from 7p14-	2.74	EB_cells, LNCaP_cells, BT474_cells
	AA463902	Hs.94964		2.73	Lu_SC_H69, PRSC_con, Lu_AD_H23
	M61982		ESTs	2.73	LNCaP_cells, DU145_cells, A549_cells
116339	AA496257	Hs.72165	ESTs; Wealdy similar to R26984_1 [H.sapi	2.73	EB_cells, DU145_cells, OVCAR_cells
			chromosome 1 open reading frame 9	2.72	PC3_cells, EB_cells, Caco2
-	N91273	Hs.27179		2.72	EB_cells, LNCaP_cells, 293T_cells
	AA461458			2.72	PC3_cells, Lu_SC_H345, Caco2
	N69136	Hs.214343		2.72	MB-MDA-453, 293T_cells, BT474_cells
			ESTs; Highly similar to G1 TO S PHASE TR	2.71	EB_cells, MCF7, Lu_SC_H345
	AA136269		ESTs; Wealty similar to \$164 [H.sapiens]	2.71 -	EB_cells, DU145_cells, HMEC
	AA127463		protein-kinase; interferon-inducible dou	2.71	EB_cells, OVCAR_cells, Cacc2
	T15470	Hs.189810		2.7	293T_cells, Lu_AD_H23, PC3_cells
119053	R11501		yf28f1.s1 Soares fetal liver spleen 1NFL		
			contains Alu repetitive element, mRNA	2.7	Lu_SC_H345, Lu_SC_H69, DU145_cells
	AA044078	Hs.24210	ESTs ·	2.7	Caco2, Lu_SC_H345, HS578T_cells
	AA063642		ESTs; Highly similar to (deffine not ava	2.7	LNCaP_cells, Lu_SC_H345, Lu_SC_H69
	AA160890		myosin VI	2.7	LNCaP_cells, MCF7, HT29_cells
	N69101		ESTs	27	EB_cells, 293T_cells, OVCAR_cells
	AA348446		ESTs	2.7	Fibroblasts 2, CALU6_cells, RPWE_2
	W45311		ESTs	2.7	EB_cells, PC3_cells, DU145_cells
	T90092	Hs.6853	ESTs; Weakly similar to !!!! ALU SUBFAMI	2.69	Lu_SC_H345, OVCAR_cells, DU145_cells
	AA305536			2.69	EB_cells, DU145_cells, Caco2
	W69474	Hs.225550		2.69	Lu_SC_H345, Lu_AD_H23, Lu_AD_H23 -
108394	AA075144		zm86f6.s1 Stratagene ovarian cancer (#93		
****	\ma 155	11. 60	gb:X1664 TRANSLATIONALLY CONTROLLE		2.69 HMEC, HMEC (total RNA), Fibroblasts 2
	X59405	Hs.83532	membrane cofactor protein (CD46; trophob	2.69	EB_cells, LNCaP_cells, DU145_cells
	R23739	Hs.23585	KIAA1078 protein	2.68	PC3_cells, HMEC (total RNA), OVCAR_cells
	AA084148	Hs.110659		2.68	OU145_cells, LNCaP_cells, OVCAR_cells
	AA731764		ESTs; Weakly similar to IIII ALU CLASS C	2.68	HT29_cells, Lu_SC_H345, MB231_cells
	M20681	Hs.7594	solute carrier family 2 (facilitated glu	2.68	Caco2, Lu_LC_H460, Fibroblasts 2
	AA477223		brain protein 13	2.68	EB_cells, Lu_AD_H23, Lu_SC_H345
	AA399574		ESTs	2.68	PC3_cells, MCF7, MB231_cells
	W67257		ESTs; Weakly similar to IIII ALU CLASS B	2.68	OVCAR_cells, DU145_cells, LNCaP_cells
	AA479362		DKFZP586N0819 protein	2.67	OVCAR_cells, DU145_cells, LNCaP_cells
124770	R40555	Hs.120429		. 2.67	Lu_AD_H23, Lu_SC_H69, PRSC_con
101764	M80563	Hs.81256	S100 calcium-binding protein A4 (calcium		
			murine placental homolog)	2.67	A549_cells, MB231_cells, OVCAR_cells
130897	AAD63428		adaptor-related protein complex 3; beta	2.57	EB_cells, Lu_AD_H23, HMEC
	H61046	Hs.237352		2.66	Lu_SC_H345, Lu_SC_H69, PRSC_con
	R12405	Hs.112423	H sapiens mRNA; cDNA DKFZp586!1420 (fro	m	2.66 Lu_SC_H345, BT474_cells, OVCAR_cells
123697	AA609601			2.66	OVCAR_cells, 293T_cells, Lu_SC_H69
	R09170	Hs.258707		2.66	293T_cells, CALU6_cells, A549_cells
	AA598679			2.66	LILSC_H345, OVCAR_cells, LILAD_H23
105569	AA278399	Hs.20596	ESTS	2.65	MCF7, HT29_cells, BT474_cells

132687	AB002301	Hs.54985	KIAA0303 protein	2.65	HMEC (total RNA), HMEC, LNCaP_cells
104105	AA422123	Hs.42457	ESTs	2.65	Lu_SC_H345, Lu_SC_H69, DU145_cells
121335	AA404418	Hs.144953	ESTs	2.65	EB_cells, Fibroblasts 2, DU145_cells
	R61693	Hs.172330	ESTs; Weakly similar to Wiskoti-Aldrich	2.64	Lu_SC_H69, 293T_cells, EB cells
	H69742	Hs.102201		2.64	DU145_cells, OVCAR_cells, Lu_SC_H345
123044	AA481549	Hs.165694	ESTs	2.64	EB_cells, Lu_SC_H69, Lu_SC_H345
129535	AA608852	Hs.112603	EST	2.64	EB_cells, Lu_AD_H23, Fibroblasts 2
131397	AB002336	Hs.26395	erythrocyte membrane protein band 4.1-li	2.64	EB_cells, DU145_cells, Caco2
	X75593		RAB13; member RAS oncogene family	2.64	Fibroblasts 2, PRSC_con, HS578T_cells
		Hs.152618		2.63	EB_cells, Lii_AD_H23, Lii_LC_H460
		Hs.24371		2.63	Caco2, EB_cells, CALU6_cells
1140/1	AA1126/9	HS.252291	ESTs; Wealthy similar to IIII ALLI SUBFAMI	2.63	EB_cells, DU145_cells, Caco2
	W19983	HS./5/61	SFRS protein kinase 1	2.63	EB_cells, Lu_AD_H23, Lu_SC_H59
132300	H68018		yr76h05.r1 Soares fetal liver spleen 1NF		
42700c	Al370418	Un 4000E0	IMAGE:211257 5, mRNA seq.	2.62	EB_cells, Lu_AD_H23, Lu_SC_H59
		Hs.42532	ESTs; Wealthy similar to IIII ALLU CLASS A	2.62	DU145_cells, OVCAR_cells, LNCaP_cells
			KIAA0438 gene product	2.61	DU145_cells, PRSC_con, Fibroblasts 2
106687	AAARSOSA	He 440387	KIAA0792 gene product	2.6.	LNCaP_cells, DU145_cells, HS578T_cells
	M31606	He 106177	phosphorytase kinase; gamma 2 (testis)	2.59 2.59	EB_cells, MB-MDA-453, Caco2
		He 124841	ESTs; Moderately similar to transformati	2.59	LNCaP_cells, EB_cells, MB-MDA-453
	R37495	Hs.23578		2.59	DU145_cells, Caco2, OVCAR_cells
			small membrane protein 1	2.59	HT29_cells, MB231_cells, Lu_SQ_H520 A549_cells, EB_cells, HS578T_cells
107058	AA600357	Hs.239489	TIA1 cytotoxic granute-associated RNA-bi	2.58	DU145_cells, Lu_SC_H345, EB_cells
126175	AA056181	Hs.17311	DKFZP434N161 protein	2.58	Lu_SC_H345, DU145_cells, LNCaP_cells
	D52154	Hs.172458	iduronate 2-sulfatase (Hunter syndrome)	2.58	DU145_cells, PC3_cells, A549_cells
126122	H80181		ESTs	2.58	DU145_cells, OVCAR_cells, LNCaP_cells
106961	AA504110	Hs.18063	ESTs	2.58	HMEC, DU145 cells, DU145 cells
114730	AA133527	Hs.126925	ESTs; Weakly similar to The KIAA0138 gen	2.58	DU145_cells, LNCaP_cells, MCF7
	N24020	Hs.132913		2.58	HS578T_cells, DU145_cells, LNCaP_cells
		Hs.29692		2.57	PRSC_con, PRSC_log, HS578T_cells
		Hs.13179	ESTs; Moderately similar to IIII ALU SUB	2.57	Lu_SC_H345, Lu_SC_H69, BT474_cells
	N24848	Hs.114062	ESTs; Weakly similar to T1587.2 [C.elega	2.57	HS578T_cells, PRSC_con, EB_cells
		Hs.188740	ESTs; Wealty similar to III ALU SUBFAMI	2.57	Lu_SC_H69, Caco2, PRSC_con
125324	R07785		yf15c06.r1 Soares fetal liver spleen 1NF		
400040			contains Alu repetitive element contain	2.57	EB_cells, Lu_AD_H23, Fibroblasts 2
	T33462	Hs.12600	ESTS	2.57	Lu_SC_H345, 293T_cells, Lu_SC_H69
	D38521		KIAA0077 protein	2.57	EB_cells, LNCaP_cells, PC3_cells
	T40902	Hs.90786	ATP-binding cassette; sub-family C (CFTR Fas-activated serine/threonine kinase	2.57	A549_cells, DU145_cells, EB_cells
	H73161		ESTs; Weakly similar to C13F10.4 [C.eleg	2.56	EB_cells, Lu_AD_H23, Lu_AD_358
	D58185	Hs.21945		2.56	EB_cells, LNCaP_cells, MB-MDA-453
	H62441		H saplens PAC clone DJ0988G15 from 7q33-	2.56	LU_SC_H345, LU_SC_H69, HMEC (total RNA)
		Hs 177407	ESTs; Weakly similar to Itil ALU SUBFAMI	2.56	HMEC (total RNA), HMEC, RPWE_2
	N42090		yy05b07.r1 Soares melanocyte 2NbHM H sap		Lu_SC_H345, Lu_SC_H69, DU145_cells HMEC, HMEC (total RNA), PC3_cells
113349			ESTs; Moderately similar to histamine N-	2.56	HT29_cells, PRSC_log, Lu_SC_H345
	AA347485		ESTs; Moderately similar to rig-1 protei	2.56	Lu_AD_H23, RPWE_2, Lu_SQ_H520
110918	N46423		ESTs	2.56	EB_cells, CALU6_cells, DU145_cells
117170	H98153	Hs.42500	ADP-ribosylation factor-like 5	2.56	OVCAR cells, EB_cells, LNCaP_cells
105159	AA173981	Hs.30490	CD2-associated protein	2.55	LNCaP_cells, EB_cells, DU145_cells
105726	AA292328	Hs.9754	activating transcription factor 5	2.55	MCF7, EB_cells, MB-MDA-453
	H67964		ESTs	2.55	EB_cells, DU145_cells, HS578T_cells
	X51757	Hs.3268	heat shock 70kD protein 6 (HSP70B')	2.55	Lu_AD_H23, MB231_cells, Fibroblasts 2
133538		Hs.74614	tight junction protein 1 (zona occludens	2.54	DU145_cells, Caco2, A549_cells
124981			maternal G10 transcript	2.54	EB_cells, Caco2, LNCaP_cells
	AA431306		ESTs	2.54	Fibroblasts 2, BT474_cells, HMEC (total RNA)
	AA448332	MS.80098		2.54	Lu_SC_H345, MCF7, MB-MDA-453
119315	AA031948			2.54	Lu_SC_H345, MB-MDA-435s, PRSC_con
	AA447780			2.54	A549_cells, RPWE_2, DU145_cells
103572				2.54	DU145_cells, EB_cells, A549_cells
124395		Hs.193977	PAGE 1	2.54	EB_cells, CALU6_cells, DU145_cells
			Human DNA seq from done 718J7 on chromo	2.54	HMEC (total RNA), HMEC, RPWE_2
HUGET	101101110	, 6,0000		2.53	I NICOD colle DDINE 2 NID NON 452
134361	D43682	Hs.82208		2.53 2.53	LNCaP_cells, RPWE_2, MB-MDA-453 LNCaP_cells, CALU6_cells, DU145_cells
130420			Human hybrid receptor gp25 precursor mRN	253	EB_ceils, HMEC (total RNA), Caco2
100336	D63478	Hs.8127		253 253	BT474_ceils, HT29_ceils, Lu_AD_358
			F700	2.53	EB_ceils, Caco2, MB-MDA-435s
124684	R02401	Hs.221078	ESTs	2.53	Lu_SC_H345, OVCAR_cells, Lu_SC_H69
	AA398933	Hs.172613	solute carrier family 12 (potassium/chlo	2.52	LNCaP_cells, DU145_cells, EB_cells
105012	AA116036	Hs.9329	chromosome 20 open reading frame 1	2.52	CALU6_cells, Cacco2, DU145_cells
126534	W39128	Hs.247901	Human DNA seg from clone 8B1 on chromoso		
	•		-CELL MEMBRANE GLYCOPROTEIN PC-1-1	he ge	2.52 BT474_cells, LNCaP_cells, Lu_AD_H23
	AA053134	Hs.241558	ariadne-2 (D. melanogaster) homolog (all	2.52	293T_cells, CALU6_cells, DU145_cells
128538	R44214	Hs.101189	ESTs	2.52	EB_cells, Lu_AD_H23, Lu_SC_H345
109865	H02566	Hs.191268	H sapiens mRNA; cDNA DKFZp434N174 (from	n	2.52 DU145_cells, LNCaP_cells, OVCAR_cells

118579	N68905		small inducible cytokine A5 (RANTES)	2.51	Lu_SC_H345, LNCaP_cells, Lu_SC_H69
117590	N349D4		ESTs; Moderately similar to IIII ALU SUB	2.51	Lu_SC_H345, DU145_cells, Lu_SC_H69
104340			ESTs	2.51	Lu_SC_H345, PRSC_con, PRSC_tog
		U- 00444		2.51	Caco2, Lu_SC_H69, 293T_cells
		Hs.99141			
		Hs.86430		2.51	EB_cells, DU145_cells, CALU6_cells
123258	AA490929	Hs.105274	ESTs -	2.51	EB_cells, Lu_AD_H23, Lu_SC_H69
118467	N66763	Hs.43080	FSTs	2.51	CALU6_cells, HS578T_cells, OVCAR_cells
			kinesin family member 58	2.51	EB_cells, Caco2, DU145_cells
107480	W58057	Hs.74304	periplakin	2.5	Caco2, OVCAR_cells, HMEC (total RNA)
111760	R26892	Hs.221434	ESTs	2.5	Lu_AD_H23, EB_cells, Lu_AD_358
				2.5	LNCaP_cells, EB_cells, DU145_cells
132474			TBP-associated factor 172		
103423	X97249	Hs.123122	FSH primary response (LRPR1; raf) homolo	2.5	HS578T_cells, Lu_SC_H345, PC3_cells
123488	AA599708	Hs.187764	ESTs; Wealdy similar to IIII ALU SUBFAMI	2.49	OVCAR_cells, Lu_SC_H345, DU145_cells
100475		Hs.12	carcinoembryonic antigen-related cell ad	2.49	MB-MDA-453, 293T_cells, CALU6_cells
112003	K42547	Hs.172551	ESIS	2.49	EB_cells, Lu_AD_H23, Lu_SC_H345
114315	Z41027	Hs.26297	ESTs	2.49	LU_SC_H69, OVCAR_cells, LU_AD_H23
105291	AA233311	Hs.28752	ESTs	2.49	EB_cells, CALU6_cells, DU145_cells
				2.49	MB-MDA-453, Lu_SC_H69, 293T_cells
		Hs.99367			
107521			H.saplens mRNA for TRE5	2.49	Lu_SC_H345, Lu_SC_H69, PRSC_con
108373	AA074393	Hs.61950	ESTs; Weakly similar to nuclear protein	2.49	MCF7, MB-MDA-453, Lu_SC_H345
			ESTs; Weakly similar to ubiquitous TPR m	2.48	DU145_cells, Lu_SC_H345, Lu_SC_H345
				2.48	PC3_cells, OVCAR_cells, Lu_SQ_H520
	H45516	Hs.33268			
129658	M22348	Hs.131255	ubiquinol-cytochrome c reductase binding	2.48	LNCaP_cells, CALU6_cells, PC3_cells
134283	H12661	Hs.8107	H sapiens mRNA; cDNA DKFZp586B0918 (fr	om	2.48 HMEC (total RNA), HS578T_cells, HMEC
	M93425	Hs.62	protein tyrosine phosphatase; non-recept	2.48	DU145_cells, EB_cells, CALU6_cells
	M33318		cytochrome P450; subfamily IIA (phenobar	2.48	EB_cells, Lu_AD_H23, Lu_AD_358
103545	Z14000	Hs.35384	ring finger protein 1	2.47	HT29_cells, Lu_SQ_H520, BT474_cells
128440			ESTs	2.47	EB_cells, Lu_AD_H23, Lu_AD_358
		LL-00444			
134992			ESTs	2.47	Lu_SC_H345, CALU6_cells, Lu_SC_H69
116295	AA489016	Hs.91216	ESTs; Highly similar to partial CDS; hum	2.47	MB-MDA-453, 293T_cells, MB-MDA-435s
107004	AA598675	Hs.239475	ESTs	2.47	LNCaP_cells, Caco2, OVCAR_cells
	AA282312		CTD (carboxy-terminal domain; RNA polyme		Lu SC H69, HMEC, EB cells
126390	W28286		tetraspan 3	2.46	EB_cells, DU145_cells, LNCaP_cells
113050	T26366	Hs.22711	EST; Weakly similar to 60S RIBOSOMAL PR	0	2.46 Lu_LC_H460, EB_cells, Lu_AD_358
	M60858		nucleolin	2.46	PC3_cells, 293T_cells, A549_cells
		1 10.1 0 1 10			, oc_com/ coc_com/
108569	AA085398		zn7e3.s1 Stratagene hNT neuron (#937233)		1 H
			IMAGE:546748 3°, mRNA seq	2.45	HT29_cells, BT474_cells, Lu_SQ_H520
117186	H98988	Hs.42612	ESTs	2.45	EB_cells, Lu_AD_H23, Lu_AD_358
			Human Chromosome 16 BAC clone CIT987S	K_A	2.45 EB_cells, Lu_AD_H23, Lu_AD_H23
128468		Hs.258674		2.45	Lu_AD_H23, EB_cells, Lu_SC_H69
117498	N31726	Hs.44268	ESTs; Highly similar to myelin gene expr	2.45	Lu_SC_H69, DU145_cells, OVCAR_cells
105407	AA243478	Hs.5206	ESTs	2.45	EB_cells, 293T_cells, PC3_cells
128941		Hs.107287		2.44	EB_cells, LNCaP_cells, A549_cells
116486	C14128	Hs.251980	ESI	2.44	MB-MDA-435s, HS578T_cells, 293T_cells
134869	T35288	Hs.90421	ESTs; Moderately similar to IIII ALU SUB	2.44	EB_cells, Liu_AD_H23, Liu_AD_358
130664	R09049	Hs.17625	ESTs	2.44	PC3_cells, EB_cells, A549_cells
			H sapiens mRNA; cDNA DKFZp564F053 (fro		2.44 PRSC_con, PRSC_log, Caco2
	AA035638				
110300		Hs.124147	ESIS	2.44	MB-MDA-453, Caco2, OVCAR_cells
113471	T87174	Hs.16341	ESTs; Moderately similar to IIII ALU SUB	244	Caco2, OVCAR_cells, LNCaP_cells
131474		Hs.2726	high-mobility group (nonhistone chromoso	2.44	CALU6 ceils, OVCAR ceils, 293T ceils
				2.44	Lu_AD_H23, Lu_SQ_H520, PRSC_con
		Hs.194031		2.44	מבורשם ובנו, מבניסום הבני, וושטבעוו
133733	AA416973	HS./5/98	Human DNA seq from clone 1183121 on chro		
			to predicted ity and worm proteins. Con	2.43	EB_cells, Caco2, DU145_cells
110077	W88579	Hs.124744	ESTs	2.43	HT29_cells, HMEC (total RNA), HMEC
			Kreisler (mouse) mai-related leucine zip	2.43	LNCaP_cells, HS578T_cells, MB-MDA-453
	W60186				
132295	H66351	Hs.181042		2.43	Lu_SC_H69, BT474_cells, Lu_SQ_H520
133395	AA491296	Hs.72805	ESTs ·	2.43	EB_ceils, LNCaP_ceils, OVCAR_ceils
105779	AAAGESEE	He 153759	U3 snoRNP-associated 55-kDa protein	2.43 .	EB_cells, Lu_AD_H23, PC3_cells
			ESTs; Moderately similar to NUCLEAR PORE		EB_cells, A549_cells, 293T_cells
113936	W81552	Hs.83623	nuclear receptor subfamily 1; group I; m	2.43	293T_cells, OVCAR_cells, Fibroblasts 2
128862	R61297	Hs.106673	eukaryotic translation initiation factor	2.43	EB calls, DU145_calls, DU145_calls
111614		Hs.191146		2.43	HIMEC (total RNA), Fibroblasts 2, MB-MDA-435s
111993	R42241	Hs.106359	5018	2.43	A549_cells, DU145_cells, CALU6_cells
131554	AA100026	Hs.28669	ESTs; Weakly similar to PROTEIN-TYROSIN	Ε ΄ ΄	2.43 EB_cells, LNCaP_cells, Caco2
	N71215		NCK-associated protein 1	2.42 .	EB_cells, Caco2, A549_cells
404054	A A ACCIDED	Hs.30204			MCF7. MB-MDA-435s, Lu_SC_H345
131034	UCU TEPM	11320604	ror.	2.42	
105014	AA121123	Hs.191374	EDIS	2.42	EB_cells, Lu_AD_H23, Lu_LC_H460
106300	AA435840	Hs.19114	high-mobility group (nonhistone chromoso	2.42	EB_cells, Lu_SC_H345, A549_cells
	U40998	Hs.81728		2.42	OVCAR cells, EB cells, DU145 cells
	R68589	Hs.23721		2.42	Caco2, MCF7, DU145_cells
125375	H72971		KIAA0277 gene product	2.42	Lu_SC_H345, OVCAR_cells, Lu_SC_H69
123808	AA620552	Hs.25682	ESTs: Wealty similar to PHOSPHATIDYLETI	·ΙΑ	2.42 EB cells, Lu AD H23, Lu SC H69
444050	AA242502	He 11901	adenosine A2b receptor pseudogene	2.42	MB-MDA-453, HT29_cells, Lu_LC_H460
4000DQ	H39216	ris.2399/0	ESTs; Weakly similar to ZNF91L [H.saplen	2.41	Lu_SC_H345, Fibroblasts 2, DU145_cells
103408	X95876	Hs.198252	G protein-coupled receptor 9	241	RPWE_2, PRSC_log, Lil_SC_H345
103408	X95876	Hs.198252	G protein-coupled receptor 9 ESTs		RPWE_2, PRSC_log, Lu_SC_H345 FR cells 2937 cells DU145 cells
103408	X95876		G protein-coupled receptor 9 ESTs	2.41 2.41	RPWE_2, PRSC_log, Lu_SC_H345 EB_cells, 293T_cells, DU145_cells

105693	AA287104	Hs.181368	U5 snRNP-specific protein (220 kD); orth	2.41	293T_cells, CALU6_cells, A549_cells
106532	AA453628	Hs.37443	ESTs	2.41	EB_cells, OVCAR_cells, Cacco2
	AA010933		core promoter element binding protein	2.41	HMEC, HMEC (total RNA), EB_cells
	R00311 M26657	Hs.18798		2.41	LU_SC_H345, LU_SC_H69, PRSC_con
		He 243845	dipeptidyl carboxypeptidase 1 (angiotens ESTs; Moderately similar to IIII ALU SUB	2.41 2.41	HT29_ceils, BT474_ceils, MB231_ceils Lu_SC_H345, DU145_ceils, LNCaP_ceils
104975	AA086071	Hs.50758	chromosome-associated polypeptide C	241	OVCAR_cells, DU145_cells, PC3_cells
118078	N54321	Hs.47790	EST	2.41	EB_cells, Fibroblasts 2, HMEC (total RNA)
115840	AA429253	Hs.58103	A kinase (PRKA) anchor protein 9	2.41	OVCAR_cells, EB_cells, PC3_cells
	L20298		core-binding factor, beta subunit	2.4	ER_cells, DU145_cells, CALU6_cells
	T40936	Hs.8349	ESTs	2.4	Cacco2, HT29_cells, EB_cells
	AA259140		ESTs -	24	Lu_SC_H69, EB_cells, Caco2
	W15263 Al061213	Hs.5422 He 13170	ESTs Moderately similar to IIII ALU SUB	24 24	Caco2, MB-MDA-435s, LNCaP_cells
	AA235013		A kinase (PRKA) anchor protein 2	24	DU145_cells, LNCaP_cells, OVCAR_cells Caco2, DU145_cells, PRSC_log
	R72427		ESTs; Weakly similar to CYTOCHROME P45		2.4 Lu_SQ_H520, Lu_AD_H23, EB_cells
		Hs.168851		2.4	LNCaP_cells, DU145_cells, OVCAR_cells
	AA460969		mitogen-activated protein kinase kinase	2.4	OVCAR_cells, 293T_cells, A549_cells
	AA456687	Hs.26057	ESTS	2.4	EB_cells, MB-MDA-453, 293T_cells
	X67683 F04444	Hs.6217	H.saptens mRNA for keratin 4 ESTs; Weakly similar to IIII ALU SUBFAMI	2.39 2.39	EB_cells, Lu_AD_H23, Lu_AD_358
	R42671		EST; Wealthy similar to lill ALU SUBFAMIL	2.39	EB_cells, Liu_SC_H345, Liu_SC_H69 MB-MDA-435s, Liu_SC_H345, Liu_AD_H23
100023	112011	110.110000	AFFX control: BioC-3	2.39	Caco2, Lij_AD_358, LNCaP_cells
119923	W86214	Hs.184642		2.39	EB cells, HS578T cells, DU145 cells
	AJ003307		AJ003307 Selected chr 21 cDNA library H	2.39	Lu_AD_H23, Lu_SC_H345, Lu_LC_H460
			DKFZP586F0222 protein	2.39	EB_cells, DU145_cells, PC3_cells
	D14874	Hs.394	adrenomedullin	2.39	Fibroblasts 2, Caco2, HS578T_cells
134201	AA227678	FIS.6004	Human DNA seq from clone 465N24 on chr 1 Contains two novel genes; ESTs; GSSs an	2.39	PRSC con, MB-MDA-453, LNCaP cells
103392	X94563		H.sapiens dbi/acbp gene exon 1 & 2	2.38	EB_cells, Lu_AD_H23, Lu_SC_H69
	U81001	Hs. 131891	Human SNRPN mRNA; 3' UTR; partial seq	2.38	LNCaP_cells, Lu_SC_H69, Lu_LC_H460
	T12649		tubulin; beta; 2	2.38	Lu_AD_H23, Lu_LC_H460, Lu_LC_H460
	N57710		proteasome (prosome; macropain) subunit;	2.38	293T_cells, OVCAR_cells, HS578T_cells
	H80107	Hs.23754		2.38	Lu_AD_H23, Lu_SC_H69, Lu_SC_H345
		Hs.74313		2.38	EB_cells, LNCaP_cells, DU145_cells
	H59730 D51401		ESTs ESTs	2.37 2.37	EB_cells, 293T_cells, Lu_SC_H69 OVCAR_cells, Caco2, CALU6_cells
	H69281		ESTs	237	EB_cells, Lu_AD_H23, Lu_SC_H345
	R67923		ESTs	2.37	DU145_cells, OVCAR_cells, 293T_cells
130715	T98227	Hs.171952	occludin	2.37	Caco2, LNCaP_cells, DU145_cells .
		Hs.104085		2.37	Lu_AD_H23, EB_cells, PRSC_con
		Hs. 193155		2.37	EB_cells, LNCaP_cells, DU145_cells
	U90716		ESTs; Weakly similar to !!!! ALU SUBFAMI coxsackle virus and adenovirus receptor	2.37 2.37	HS578T_cells, MCF7, Lu_SC_H69
120239			ESTs	2.37	OVCAR_cells, DU145_cells, Lu_SC_H345 EB_cells, DU145_cells, LNCaP_cells
	AA481883		ESTs; Weakly similar to Unknown [H.saple	2.37	EB_cells, DU145_cells, OVCAR_cells
	AA435762	Hs.54894	ESTs; Highly similar to unknown [H.sapie	2.37	EB_cells, LNCaP_cells, PRSC_con
	AA132946		ESTs	2.36	Lu_AD_H23, Lu_AD_358, Lu_SQ_H520
133226		Hs.169552		2.36	Caco2, MB-MDA-453, MCF7
119236		Hs.20373 Hs.237297	ESTs; Moderately similar to !!!! ALU SUB	2.36 2.36	MB-MDA-453, Caco2, OVCAR cells
	AA459255		ESTs	2.36	EB_cells, 293T_cells, LNCaP_cells LNCaP_cells, A549_cells, Caco2
	AA181600		ESTs	236	Lu_SC_H345, LNCaP_cells, EB_cells
112724	R91753	Hs.17757	ESTs	2.36	Caco2, EB_cells, DU145_cells
112655		Hs.141139		2.36	Fibroblasts 2, Lu_AD_H23, Lu_LC_H460
	AA454988		ESTs	2.36	EB_cells, OVCAR_cells, HS578T_cells
106100	AAAAAAAA	HS.33207	nuclear factor I/B ESTs; Wealty similar to IIII ALU SUBFAMI	2.36	OVCAR_cells, Lu_SC_H345, MB-MDA-453
134776		Hs.89603	much 1; transmembrane	2.35 2.35	Lu_SC_H345, Lu_LC_H460, Lu_AD_H23 DU145_cells, Lu_AD_H23, Lu_AD_358
101192			solute carrier family 20 (phosphate tran	2.35	PC3_cells, CALU6_cells, MB-MDA-435s
		Hs.171825	basic helix-loop-helix domain containing	2.35	A549_cells, DU145_cells, HT29_cells
	AA446949	Hs.6236	ESTs	2.35	LNCaP_cells, PC3_cells, DU145_cells
109637				2.35	MB-MDA-435s, A549_cells, Lu_LC_H460
101483			procollagen-proline; 2-oxoglutarate 4-di	2.35	PC3_cells, HS578T_cells, EB_cells
131751 131050				2.35	DU145_cells, MB231_cells, HMEC
130097		Hs. 14845		2.35 2.34	Lu_AD_H23, PC3_cells, PRSC_log EB_cells, LNCaP_cells, LNCaP_cells
134533	AA013468	Hs.241493	natural killer-turnor recognition seg	2.34	EB_ceils, HT29_ceils, HMEC
134839	D63479	Hs.115907	diacytgtycerol kinase; delta (130kD)	2.34	Lu LC_H460, Caco2, DU145_cells
115690	AA410894	Hs.44159	ESTs	2.34	PC3_cells, EB_cells, OVCAR_cells
129079		Hs.108502		2.34	Lii_AD_H23, Lii_SC_H69, Lii_AD_358
		Hs.243059		2.34	LIL_SC_H345, PC3_cells, MB-MDA-435s
126239 124440				2.34	BT474_cells, Lu_LC_H460, Lu_AD_H23
111468		Hs.205481		234 234	LU_SC_H69, HT29_cells, MB-MDA-435s
129560			TOTAL	234 234	Lu_AD_H23, PRSC_log, Lu_SQ_H520 Lu_SC_H69, Lu_SC_H345, LNCaP_cells
					•,

104857	AA043219	Hs.19058	ESTs	2.34	Lu_AD_H23, Lu_SC_H345, Lu_SC_H345
	F04587	Hs.28241		2.34	HS578T_cells, A549_cells, CALU6_cells
	H97817	Hs.183302		2.34	EB cells, Fibroblasts 2, Lu_SC_H69
	R58974	Hs.167343		2.34	EB cells, Lu SC H345, HT29 cells
	T95745	Hs.187433		234	MB-MDA-435s, MB-MDA-453, Ltt_SC_H345
	W56804		AFG3 (ATPase family gene 3; yeast)-like	2.34	OVCAR cells, Fibroblasts 2, MB-MDA-435s
				2.34	EB_cells, Caco2, DU145_cells
	M29536		eukaryotic translation initiation factor		293T_cells, PRSC_log, Lu_SC_H345
	AA775029			2.33	
	AA213555			2.33	EB_cells, DU145_cells, LNCaP_cells
	AA126917			2.33	Lu AD_H23, Lu_AD_358, Lu_LC_H460
			nuclear pore complex interacting protein	2.33	LNCaP_cells, Lu_SC_H69, DU145_cells
	AA234916			2.33	MB231_cells, Lu_SC_H345, Lu_SC_H69
134998	R02207	Hs.92679	ESTs; Weakly similar to microtubule-base	2.33	LNCaP_cells, BT474_cells, MCF7
108456	AA079326	Hs.143654	ESTs	2.33	HT29_cells, Lii_AD_H23, RPWE_2
130552	M86667	Hs.179662	nucleosome assembly protein 1-like 1	2.33	EB_cells, A549_cells, DU145_cells
111114	N63391	Hs.9238	ESTs	2.33	Caco2, EB_cells, MB-MDA-453
			ESTs; Moderately similar to TADA1 protei	2.33	CALU6_cells, 293T_cells, PC3_cells
	AA454725				OVCAR_cells, Caco2, LNCaP_cells
	AA446110			2.33	BT474_cells, Fibroblasts 2, MB-MDA-435s
	D84294		tetratricopeptide repeat domain 3	2.33	Lu SC H345, EB_cells, EB_cells
	AA449099		ESTs; Weakly similar to atopy related au	2.33	EB_cells, LNCaP_cells, Caco2
			transcriptional intermediary factor 1	2.33	EB_cells, LNCaP_cells, Caco2
	AA447442			2.33	EB_cells, 293T_cells, Lu_SC_H69
			ESTs		
	AA351031		solute carrier family 22 (organic anion	2.33	EB_cells, Lu_AD_H23, Lu_SC_H345
	W04550	Hs.9927	H saplens mRNA; cDNA DKFZp564D156 (fro		2.32 OVCAR_cells, EB_cells, Lu_SC_H69
	H68772	Hs.35820	ESTs; Weakly similar to b34l8.1 [H.saple	2.32	Lu_SC_H345, Lu_AD_H23, PRSC_con
	U26312	Hs.8123	chromobox homolog 3 (Drosophila HP1 gamm		CALU6_cells, LNCaP_cells, A549_cells
114777	AA151699	Hs.184519	ESTs; Weakly similar to IIII ALU SUBFAMI	2.32	HT29_cells, Fibroblasts 2, Lu_SC_H345
125518	R20148	Hs.193851	ESTs	2.32	HT29_cells, HMEC (total RNA), MB231_cells
130814	AA256695	Hs.19813	ESTs	2.32	MB-MDA-435s, Lu_SC_H69, PRSC_log
123473	AA599143		ESTs; Moderately similar to IIII ALU SUB	2.32	LNCaP_ceils, DU145_ceils, Lu_SC_H345
	AA313414	Hs.8148		2.32	PC3_cells, LNCaP_cells, OVCAR_cells
	R85375	Hs.237262		2.32	Lu SC H69, PRSC log, PRSC con
	AA004876			2.32	PC3 cells, 293T_cells, 293T_cells
	R49144	Hs.119756	and the second s	2.32	PRSC_log, 293T_cells, 293T_cells
		Hs.12929		2.32	Lu_AD_H23, Lu_SC_H69, Lu_SC_H345
	F09792				
116726		Hs.42309	ESTs	2.32	MCF7, BT474_cells, MB-MDA-453
	R32993	Hs.6762	ESTs; Wealty similar to similar to leucy	2.31	DU145_cells, 293T_cells, EB_cells
	AA125988			2.31	Lu_SC_H345, LNCaP_cells, DU145_cells
	N68836	Hs.19247		2.31	OVCAR_cells, LNCaP_cells, 293T_cells
	H29565	Hs.12271	ESTs	2.31	BT474_cells, MB231_cells, MB-MDA-453
	AA092473		chromobox homolog 3 (Drosophila HP1 gamm		CALU6_cells, MCF7, DU145_cells
			ESTs; Weakly similar to atypical PKC spe	2.31	HT29_cells, BT474_cells, HMEC
			ESTs; Weakly similar to allograft inflam	2.31	DU145_cells, A549_cells, Lu_LC_H460
123512	AA600248	Hs.142245	HERV-H LTR-associating 3	2.31	PC3_cells, 293T_cells, DU145_cells
106644	AA460239	Hs.12680	ESTs	2.31	HS578T_cells, MB231_cells, Lu_SQ_H520
127359	H72971		KIAA0277 gene product	2.31	Lu_SC_H345, DU145_cells, OVCAR_cells
105919	AA402494	Hs.3990	ESTs	2.31	HS578T_cells, DU145_cells, LNCaP_cells
125241	W86291	Hs.121593	ESTs	23	HMEC, HMEC (total RNA), EB_cells
	AA001936			2.3	DU145_cells, PC3_cells, PRSC_log
	AA101767			2.3	EB_cells, HMEC (total RNA), Lu_LC_H460
	AA071539		zm74b6.s1 Stratagene neuroepithelium (#9		
100000	74.07 1000		HYDROXYSTEROID DEHYDROGENASE/DE	TA-S-DEI	2.3 HT29 cells, RPWE 2, Lu AD H23
445682	AA410300	He 44618		23	HT29 cells, Lu SQ H520, Lu AD H23
			Human transposon-like element mRNA	23	EB_cells, CALU6_cells, A549_cells -
	M23161 N59858		H saplens mRNA; cDNA DKFZp434N185 (from		2.3 LNCaP_cells, DU145_cells, PRSC_log
				2.29	DU145_cells, A549_cells, MCF7
	N62339		heat shock 90kD protein 1; alpha	2.29	MCF7, DU145_cells, EB_cells
	H20522	Hs.20969		2.29	Fibroblasts 2, MB-MDA-435s, Lu_LC_H460
125073		Hs.193638		2.29	EB_cells, Lu_SC_H345, Lu_SC_H69
			ECTo		
111495	R07210	Hs.19913		2.29	CALU6_cells, EB_cells, MCF7
				2.29	HS578T_cells, RPWE_2, Lu_AD_358
124024	R07210	Hs.19913 Hs.106672	ESTs ESTs	2.29 2.29	HS578T_cells, RPWE_2, Lu_AD_358 LNCaP_cells, DU145_cells, OVCAR_cells
124024 128230	R07210 F03077 AA984074	Hs.19913 Hs.106672 Hs.176757	ESTs ESTs	2.29	HS578T_cells, RPWE_2, Lu_AD_358 LNCaP_cells, DU145_cells, OVCAR_cells DU145_cells, PRSC_con, PRSC_log
124024 128230 125471	R07210 F03077 AA984074	Hs.19913 Hs.106672 Hs.176757	ESTs	2.29 2.29 2.29	HS578T_cells, RPWE_2, Lu_AD_358 LNCaP_cells, DU145_cells, OVCAR_cells
124024 128230 125471 120734	R07210 F03077 AA984074 AA477571 AA299949	Hs.19913 Hs.106672 Hs.176757 Hs.152601	ESTs ESTs UDP-glucose ceramide glucosyltransferase	2.29 2.29 2.29 2.28	HS578T_cells, RPWE_2, Lu_AD_358 LNCaP_cells, DU145_cells, OVCAR_cells DU145_cells, PRSC_con, PRSC_log
124024 128230 125471 120734 134349	R07210 F03077 AA984074 AA477571 AA299949 AA406373	Hs.19913 Hs.106672 Hs.176757 Hs.152601 Hs.8208	ESTs ESTs UDP-glucose ceramide glucosyltransferase EST12545 Uterus tumor i H sapiens cDNA 3 ESTs	2.29 2.29 2.29 2.28 2.28	HS578T_cells, RPWE_2, Lu_AD_358 LNCaP_cells, DU145_cells, OVCAR_cells DU145_cells, PRSC_con, PRSC_log Lu_AD_H23, Lu_SC_H345, Lu_SC_H69 DU145_cells, PC3_cells, LNCaP_cells
124024 128230 125471 120734 134349 123412	R07210 F03077 AA984074 AA477571 AA299949 AA406373 AA521443	Hs.19913 Hs.106672 Hs.176757 Hs.152601 Hs.8208 Hs.187763	ESTs ESTs UDP-glucose ceramide glucosyltransferase EST12545 Uterus turnor I H saplens cDNA 3 ESTs ESTs	2.29 2.29 2.29 2.28 2.28 2.28	HS578T_cells, RPWE_2, Lu_AD_358 LNCaP_cells, DU145_cells, OVCAR_cells DU145_cells, PRSC_con, PRSC_log Lu_AD_H23, Lu_SC_H345, Lu_SC_H69 DU145_cells, PC3_cells, LNCaP_cells BT474_cells, BT474_cells, Lu_SC_H69
124024 128230 125471 120734 134349 123412 116297	R07210 F03077 AA984074 AA477571 AA299949 AA406373 AA521443 AA489042	Hs.19913 Hs.106672 Hs.176757 Hs.152601 Hs.8208 Hs.187763 Hs.59498	ESTs ESTs UDP-glucose ceramide glucosyltransferase EST12545 Uterus turnor I H sapiens cDNA 3 ESTs ESTs ESTs	2.29 2.29 2.29 2.28 2.28 2.28 2.28	HS578T_cells, RPWE_2, Lu_AD_358 LNCaP_cells, DU145_cells, OVCAR_cells DU145_cells, PRSC_con, PRSC_log Lu_AD_H23, Lu_SC_H345, Lu_SC_H69 DU145_cells, PC3_cells, Lu_SC_H69 BT474_cells, BT474_cells, Lu_SC_H69 EB_cells, 293T_cells, MB-MDA-453
124024 128230 125471 120734 134349 123412 116297 104476	R07210 F03077 AA984074 AA477571 AA299949 AA406373 AA521443 AA489042 N33807	Hs.19913 Hs.106672 Hs.176757 Hs.152601 Hs.8208 Hs.187763 Hs.59498 Hs.223014	ESTs ESTs UDP-glucose ceramide glucosyltransferase EST12545 Uterus turnor I H sapiens cDNA 3 ESTs ESTs ESTs ESTs protease; serine; 15	2.29 2.29 2.28 2.28 2.28 2.28 2.28 2.28	HS578T_cells, RPWE_2, Lu_AD_358 LNCaP_cells, DU145_cells, OVCAR_cells DU145_cells, PRSC_con, PRSC_log Lu_AD_H23, Lu_SC_H345, Lu_SC_H69 DU145_cells, PC3_cells, Lu_SC_H69 EH7474_cells, BT474_cells, Lu_SC_H69 EB_cells, 293T_cells, MB-MDA-453 LNCaP_cells, MCF7, PC3_cells
124024 128230 125471 120734 134349 123412 116297 104476 101004	R07210 F03077 AA984074 AA477571 AA299949 AA406373 AA521443 AA489042 N33807 J04101	Hs.19913 Hs.106672 Hs.176757 Hs.152601 Hs.8208 Hs.187763 Hs.59498 Hs.223014 Hs.248109	ESTs ESTs UDP-glucose ceramide glucosyltransferase EST12545 Uterus turnor I H sapiens cDNA 3 ESTs ESTs ESTs ESTs protease; serine; 15 w-ets avian erythrobiastosis virus E26 o	2.29 2.29 2.28 2.28 2.28 2.28 2.28 2.28	HS578T_cells, RPWE_2, Lu_AD_358 LNCaP_cells, DU145_cells, OVCAR_cells DU145_cells, PRSC_con, PRSC_log Lu_AD_H23, Lu_SC_H345, Lu_SC_H69 DU145_cells, PC3_cells, Ll\CaP_cells BT474_cells, BT474_cells, Lu_SC_H69 EB_cells, 293T_cells, MB-MDA-453 LNCaP_cells, MCF7, PC3_cells HT29_cells, MB-MDA-435s, HMEC (total RNA)
124024 128230 125471 120734 134349 123412 116297 104476 101004 109991	R07210 F03077 AA984074 AA477571 AA299949 AA406373 AA521443 AA489042 N33807 J04101 H09813	Hs.19913 Hs.106672 Hs.176757 Hs.152601 Hs.8208 Hs.187763 Hs.59498 Hs.223014 Hs.248109 Hs.12896	ESTs ESTs UDP-glucose ceramide glucosyltransferase EST12545 Uterus turnor I H sapiens cDNA 3 ESTs ESTs ESTs ESTs protease; serine; 15 v-ets avian erythroblastosis virus E26 o KIAA1034 protein	229 229 229 228 228 228 228 228 228 228	HS578T_cells, RPWE_2, Lu_AD_358 LNCaP_cells, DU145_cells, OVCAR_cells DU145_cells, PRSC_con, PRSC_log Lu_AD_H23, Lu_SC_H345, Lu_SC_H69 DU145_cells, PC3_cells, LNCaP_cells BT474_cells, BT474_cells, Lu_SC_H69 EB_cells, 293T_cells, MB-MDA-453 LNCaP_cells, MCF7, PC3_cells HT29_cells, MCF7, PC3_cells HT29_cells, MB-MDA-435s, HMEC (total RNA) EB_cells, CALU6_cells, 293T_cells
124024 128230 125471 120734 134349 123412 116297 104476 101004 109991 118934	R07210 F03077 AA984074 AA477571 AA299949 AA406373 AA521443 AA489042 N33807 J04101 H09813 N92571	Hs.19913 Hs.106672 Hs.176757 Hs.152601 Hs.8208 Hs.187763 Hs.59498 Hs.223014 Hs.248109 Hs.12896 Hs.54808	ESTs ESTs UDP-glucose ceramide glucosyltransferase EST12545 Uterus tumor I H sapiens cDNA 3 ESTs ESTs ESTs protease; serine; 15 v-ets avian erythrobiastosis virus E26 o KIAA1034 protein ESTs	229 229 229 228 228 228 228 228 228 228	HS578T_ceils, RPWE_2, Lu_AD_358 LNCaP_ceils, DU145_ceils, OVCAR_ceils DU145_ceils, PRSC_con, PRSC_log Lu_AD_H23, Lu_SC_H345, Lu_SC_H69 DU145_ceils, PC3_ceils, LNCaP_ceils BT474_ceils, BT474_ceils, Lu_SC_H69 EB_ceils, 293T_ceils, MB-MDA-453 LNCaP_ceils, MGF7, PC3_ceils HT29_ceils, MB-MDA-435s, HMEC (total RNA) EB_ceils, CALU6_ceils, 293T_ceils HS578T_ceils, 293T_ceils, A549_ceils
124024 128230 125471 120734 134349 123412 116297 104476 101004 109991 118934 125096	R07210 F03077 AA984074 AA477571 AA299949 AA406373 AA521443 AA489042 N33807 N33807 N34101 H09813 N92571 T94328	Hs.19913 Hs.106672 Hs.176757 Hs.152601 Hs.8208 Hs.187763 Hs.59498 Hs.223014 Hs.248109 Hs.12896 Hs.12896 Hs.54808 Hs.194533	ESTs ESTs UDP-glucose ceramide glucosyltransferase EST12545 Uterus turnor I H saplens cDNA 3 ESTs ESTs ESTs protease; serine; 15 v-ets avian erythroblastosis virus E26 o KIAA1034 protein ESTs ESTs	229 229 228 228 228 228 228 228 228 228	HS578T_ceils, RPWE_2, Lu_AD_358 LNCaP_ceils, RPWE_2, Lu_AD_358 LNCaP_ceils, PRSC_con, PRSC_log Lu_AD_H23, Lu_SC_H345, Lu_SC_H69 DU145_ceils, PC3_ceils, Lu_SC_H69 EB_ceils, PC3_ceils, Lu_SC_H69 EB_ceils, 293T_ceils, MB-MDA-453 LNCaP_ceils, MB-MDA-453 LNCaP_ceils, MB-MDA-453, HMEC (total RNA) EB_ceils, AB-MDA-453, HMEC (total RNA) EB_ceils, Ceils, 293T_ceils HS578T_ceils, 293T_ceils Lu_SC_H345, Lu_SC_H69, 293T_ceils
124024 128230 125471 120734 134349 123412 116297 104476 101004 109991 118934 125096 117514	R07210 F03077 AA984074 AA477571 AA299949 AA406373 AA521443 AA489042 N33807 J04101 H09813 N92571 T94328 N32226	Hs.19913 Hs.106672 Hs.176757 Hs.152601 Hs.8208 Hs.187763 Hs.59498 Hs.223014 Hs.248109 Hs.12896 Hs.12896 Hs.194533 Hs.124058	ESTs ESTs UDP-glucose ceramide glucosyltransferase EST12545 Uterus turnor I H sapiens cDNA 3 ESTs ESTs ESTs protease; serine; 15 v-ets avian erythroblastosis virus E26 o KIAA1034 protein ESTs ESTs ESTs ESTs ESTs	229 229 228 228 228 228 228 228 228 228	HS578T_cells, RPWE_2, Lu_AD_358 LNCaP_cells, DV145_cells, OVCAR_cells DV145_cells, PRSC_con, PRSC_log Lu_AD_H23, Lu_SC_H345, Lu_SC_H69 DV145_cells, PC3_cells, Lu_SC_H69 EB_cells, PC3_cells, Lu_SC_H69 EB_cells, 293T_cells, MB-MDA-453 LNCaP_cells, MCF7, PC3_cells HT29_cells, MG-MDA-435s, HMEC (total RNA) EB_cells, CALU6_cells, 293T_cells Lu_SC_H345, Lu_SC_H69, 293T_cells CALU6_cells, HMEC, Lu_AD_H23
124024 128230 125471 120734 134349 123412 116297 104476 101004 109991 118934 125096 117514 132792	R07210 F03077 AA984074 AA477571 AA299949 AA406373 AA521443 AA489042 N33807 J04101 H09813 N92571 T94328 N32226 AA401903	Hs.19913 Hs.106672 Hs.176757 Hs.152601 Hs.8208 Hs.187763 Hs.29498 Hs.223014 Hs.248109 Hs.12896 Hs.54808 Hs.194533 Hs.194533 Hs.242985	ESTs ESTs UDP-glucose ceramide glucosyltransferase EST12545 Uterus turnor I H sapiens cDNA 3 ESTs ESTs ESTs ESTs protease; serine; 15 v-ets avian erythroblastosis virus E26 o KIAA1034 protein ESTs ESTs ESTs ESTs ESTs ESTs ESTs hennoglobin; gemma G	229 229 229 228 228 228 228 228 228 228	HS578T_cells, RPWE_2, Lu_AD_358 LNCaP_cells, DU145_cells, OVCAR_cells DU145_cells, PRSC_con, PRSC_log Lu_AD_H23, Lu_SC_H345, Lu_SC_H69 DU145_cells, PC3_cells, Lu_SC_H69 EB_cells, ET474_cells, Lu_SC_H69 EB_cells, 293T_cells, MB-MDA-453 LNCaP_cells, MCF7, PC3_cells HT29_cells, MB-MDA-435s, HMEC (total RNA) EB_cells, CALU6_cells, 293T_cells HS578T_cells, 293T_cells, A549_cells Lu_SC_H345, Lu_SC_H69, 293T_cells CALU6_cells, HMEC, Lu_AD_H23 OVCAR_cells, Lu_SC_H69, MCF7
124024 128230 125471 120734 134349 123412 116297 104476 101004 109991 118934 125096 117514 132792	R07210 F03077 AA984074 AA477571 AA299949 AA406373 AA521443 AA489042 N33807 J04101 H09813 N92571 T94328 N32226	Hs.19913 Hs.106672 Hs.176757 Hs.152601 Hs.8208 Hs.187763 Hs.29498 Hs.223014 Hs.248109 Hs.12896 Hs.54808 Hs.194533 Hs.194533 Hs.242985	ESTs ESTs UDP-glucose ceramide glucosyltransferase EST12545 Uterus turnor I H sapiens cDNA 3 ESTs ESTs ESTs ESTs protease; serine; 15 v-ets avian erythroblastosis virus E26 o KIAA1034 protein ESTs ESTs ESTs ESTs ESTs ESTs ESTs hennoglobin; gemma G	229 229 228 228 228 228 228 228 228 228	HS578T_cells, RPWE_2, Lu_AD_358 LNCaP_cells, DV145_cells, OVCAR_cells DV145_cells, PRSC_con, PRSC_log Lu_AD_H23, Lu_SC_H345, Lu_SC_H69 DV145_cells, PC3_cells, Lu_SC_H69 EB_cells, PC3_cells, Lu_SC_H69 EB_cells, 293T_cells, MB-MDA-453 LNCaP_cells, MCF7, PC3_cells HT29_cells, MG-MDA-435s, HMEC (total RNA) EB_cells, CALU6_cells, 293T_cells Lu_SC_H345, Lu_SC_H69, 293T_cells CALU6_cells, HMEC, Lu_AD_H23

111658	R16981	Hs.15276	ESTs	2.28	MB-MDA-435s, 2937_cells, A549_cells
	R55757	Hs.26457	EST	2.28	Lu_SC_H345, Lu_SC_H69, Lu_AD_358
	W69310	Hs.740	PTIC2 protein tyrosine kinase 2	2.28	EB cells, PC3 cells, DU145 cells
	T10822	Hs.4095	ESTs	2.28	LNCaP_cells, EB_cells, PC3_cells
115119	AA256524	Hs.46847		os .	
****	*****		yeast and archaea bacterial genes; and	2 <i>2</i> 7	A549_cells, EB_cells, LNCaP_cells
	U15009	Hs.1575	small nuclear ribonucleoprotein D3 polyp	2 <i>.2</i> 7	LNCaP_cells, Caco2, EB_cells
	Z41424	Hs.21259		2 <i>2</i> 7	HT29_cells, OVCAR_cells, Fibroblests 2
	AA476436		ESTs	2.27	LU_AD_358, RPWE_2, LU_AD_H23
119359	T71021	Hs.93334	ESTs; Highly similar to WS basic-helix-l	2.27	Lu_SC_H69, 293T_ceits, DU145_ceits
100307	AAA3386/	HS.168212	kinesin family member 3B	2.27	OVCAR_cells, LNCaP_cells, EB_cells
	L13738	MS.15393/	activated p21cdo42Hs kinase	2.27	MB-MDA-453, DU145_cells
	W69468	Hs.47622		2.27	PC3_cells, HT29_cells, A549_cells
	Y08614	Hs.49378		2.27	EB_cells, HS578T_cells, Lu_AD_358
		Hs.220687	exportin 1 (CRM1; yeast; homolog)	2.26	EB_cells, CALU6_cells, DU145_cells
	W84704	Hs.35380		2.26	EB_cells, Lu_AD_H23, Lu_AD_358
		Hs.10018		2.26	HS578T_cells, OVCAR_cells, MB-MDA-435s
	T95641		ESTs; Wealdy similar to Hrs [H.sapiens]	2.26 2.26 ·	LNCaP_cells, OVCAR_cells, DU145_cells
	AA227498	Hs 3623	ESTs	2.26	LU_AD_H23, LU_SC_H69, PRSC_log
	H43286		gamma-aminobutyric acid (GABA) B recepto		HS578T_cells, 293T_cells, Lu_SC_H345 Fibroblasts 2, MB231_cells, 293T_cells
	R37959	Hs.13358		2.26	CALU6_cells, Lu_SQ_H520, 293T_cells
			ESTs; Weakly similar to CALPAIN 2; LARGE	2.26	HT29_cells, MB-MDA-453, PC3_cells
124628	N74702	Hs.102834		2.26	293T_cells, CALU6_cells, CALU6_cells
119707	W67569	Hs.44143	ESTs; Wealty similar to SNF2alpha protei	2.26	293T_cells, OVCAR_cells, Lu_SC_H345
106737	AA470080	Hs.36237	ESTs; Moderately similar to CGI-34 prote	2.26	LNCaP_cells, DU145_cells, MB-MDA-435s
117305	N22798	Hs.43248	EST	2.26	HT29_cells, BT474_cells, Fibroblasts 2
	X54942	Hs.83758	CDC28 protein kinase 2	2.26	DU145_cells, CALU6_cells, LNCaP_cells
	T99337		KIAA1052 protein	2.26	LIL AD H23, LIL SC H345, LIL SC H69 -
	R69227	Hs.101489	=	2.26	Lu_SC_H345, DU145_cells, OVCAR_cells
	HG2992-H		Beta-Hexosaminidase, Alpha Polypeptide,	2.26	HT29_cells, BT474_cells, Liu_SC_H345
		Hs.90960		2.26	Caco2, 293T_cells, DU145_cells
	H17476		ESTs; Highly similar to map kinase phosp	2.25	CALU6_cells, LNCaP_cells, PC3_cells
	N91973	Hs.23595		2.25	Lilsq_H520, Lilad_H23, RPWE_2
1102/0	AAAAAAA	HS.200911	Interleukin 13 receptor, alpha 1	2.25	OVCAR_cells, 293T_cells, DU145_cells
		Hs.126705 Hs.79013		2.25	EB_cells, Lu_AD_H23, Lu_AD_H23
132470		Hs.4934		2.25 2.25	293T_cells, EB_cells, OVCAR_cells
		113,7537	H.saplens polyA site DNA		
114718	AA131328				EB_cells, HS578T_cells, Caco2
114718	AA131328		zo8d1.s1 Stratagene neuroepithelium NT2R		
		Hs.242908	208d1.s1 Stratagene neuroepithelium NT2R SW:COX2_MOUSE P45 CYTOCHROME C C	XIDASE P	2.25 MB-MDA-435s, HT29_cells, Lu_SC_H69
114718 129499 124758	R40395	Hs.242908 Hs.169168	208d1.s1 Stratagene neuroepithetium NT2R SW:COX2_MOUSE P45 CYTOCHROME C C lecifhin-cholesterol acytiransferase	XIDASE P 2.25	2.25 MB-MDA-435s, HT29_cells, Lu_SC_H69 HMEC (total RNA), Fibroblasts 2, HMEC
129499	R40395 R38422	Hs.169168	zo8d1.s1 Stratagene neuroepithefium NT2R SW:COX2_MOUSE P45 CYTOCHROME C C lecithin-cholesterol acytransferase ESTs	XIDASE P	2.25 MB-MDA-435s, HT29_cells, Lu_SC_H69 HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460
129499 124758 130301 131263	R40395 R38422 X83127 R38334	Hs.169168 Hs.172471 Hs.24950	zo8d1.s1 Stratagene neuroepithefium NT2R SW:COX2_MOUSE P45 CYTOCHROME C C lecithin-cholesterol acytransferase ESTs potassium voltage-gated channet; shaker- regulator of G-protein signalling 5	XIDASE P 2.25 2.25	2.25 MB-MDA-435s, HT29_cells, Lu_SC_H69 HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells
129499 124758 130301 131263 107159	R40395 R38422 X83127 R38334 AA621340	Hs.169168 Hs.172471 Hs.24950 Hs.10600	zo8d1.s1 Stratagene neuroepithefium NT2R SW:COX2_MOUSE P45 CYTOCHROME C Clecithin-cholesterol acytransferase ESTs potassium voltage-gated channet; shaker-regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c.	0XIDASE P 2.25 2.25 2.25	2.25 MB-MDA-435s, HT29_cells, Lu_SC_H69 HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69
129499 124758 130301 131263 107159 133262	R40395 R38422 X83127 R38334 AA621340 N72009	Hs.169168 Hs.172471 Hs.24950 Hs.10600 Hs.206710	zo8d1.s1 Stratagene neuroepithefium NT2R SW:COX2_MOUSE P45 CYTOCHROME C Clecithin-cholesterol acytransferase ESTs potassium voltage-gated channet; shaker-regulator of G-protein signalling 5 ESTs; Weakly stmilar to ORF YKR081c [S.c ESTs	OXIDASE P 2.25 2.25 2.25 2.25 2.25 2.25	2.25 MB-MDA-435s, HT29_cells, Lu_SC_H69 HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells
129499 124758 130301 131263 107159 133262 132985	R40395 R38422 X83127 R38334 AA621340 N72009 AA093619	Hs.169168 Hs.172471 Hs.24950 Hs.10600 Hs.206710 Hs.62113	zo8d1.s1 Stratagene neuroepithefium NT2R SW:COX2_MOUSE P45 CYTOCHROME C Cledithin-cholesterol acyltransferase ESTs potassium voltage-gated channel; shaker-regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein	OXIDASE P 2.25 2.25 2.25 2.25 2.25 2.25 2.25 2.2	2.25 MB-MDA-435s, HT29_cells, Lu_SC_H69 HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells
129499 124758 130301 131263 107159 133262 132985 114172	R40395 R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043	Hs.169168 Hs.172471 Hs.24950 Hs.10600 Hs.206710 Hs.62113 Hs.21421	zo8d1.s1 Stratagene neuroepithefium NT2R SW:COX2_MCUSE P45 CYTOCHROME C Clecifhin-cholesterol acythransferase ESTs potassium voltage-gated channel; shaker-regulator of G-protein signalling 5 ESTs; Wealdy similar to ORF YKR081c [S.c ESTs KIAAUT17 protein ESTs; Wealdy similar to cysteine desutifu	OXIDASE P 2.25 2.25 2.25 2.25 2.25 2.25 2.24 2.24	2.25 MB-MDA-435s, HT29_cells, Lu_SC_H69 HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DUH45_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALLI6_cells, Lu_SQ_H520
129499 124758 130301 131263 107159 133262 132985 114172 127847	R40395 R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA913387	Hs.169168 Hs.172471 Hs.24950 Hs.10600 Hs.206710 Hs.62113 Hs.21421 Hs.126717	zo8d1.s1 Stratagene neuroepithefium NT2R SW:COX2_MOUSE P45 CYTOCHROME C Clecithin-cholesterol acytransferase ESTs potassium voltage-gated channel; shaker-regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs Washing Stratage of Common Stratage of Comm	OXIDASE P 2.25 2.25 2.25 2.25 2.25 2.25 2.24 2.24	2.25 MB-MDA-435s, HT29_cells, Lu_SC_H69 HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALL16_cells, Lu_SQ_H520 LNCaP_cells, DU145_cells, Lu_SQ_H520 LNCaP_cells, DU145_cells, Lu_SC_H69
129499 124758 130301 131263 107159 133262 132985 114172 127847 106499	R40395 R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244	Hs.169168 Hs.172471 Hs.24950 Hs.10600 Hs.206710 Hs.62113 Hs.21421 Hs.126717 Hs.16727	zo8d1.s1 Stratagene neuroepithefium NT2R SW:COX2_MOUSE P45 CYTOCHROME C Clecithin-cholesterol acytransferase ESTs potassium voltage-gated channel; shaker-regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desulfu ESTs ESTs	OXIDASE P 2.25 2.25 2.25 2.25 2.25 2.24 2.24 2.24	2.25 MB-MDA-435s, HT29_cells, Lu_SC_H69 HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DUH45_cells, LNCaP_cells EB_cells, Lu_AD_J88 293T_cells, CALLi6_cells, Lu_SC_H520 LNCaP_cells, DUH45_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69
129499 124758 130301 131263 107159 133262 132985 114172 127847 106499 105095	R40395 R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088	Hs.169168 Hs.172471 Hs.24950 Hs.10600 Hs.206710 Hs.62113 Hs.21421 Hs.126717 Hs.16727 Hs.27023	zo8d1.s1 Stratagene neuroepithefium NT2R SW:COX2_MOUSE P45 CYTOCHROME C Clecithin-cholesterol acytransferase ESTs potassium voltage-gated channet; shaker-regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desulfu ESTs KIAA0917 protein	OXIDASE P 2.25 2.25 2.25 2.25 2.25 2.24 2.24 2.24	2.25 MB-MDA-435s, HT29_cells, Lu_SC_H69 HMEC (total RNA), Fibrobasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALU6_cells, Lu_SC_H59 LNCaP_cells, DU145_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells, CALU6_cells
129499 124758 130301 131263 107159 133262 132985 114172 127847 106499 105095 108876	R40395 R38422 X83127 R38334 AA621340 N7209 AA093619 Z39043 AA913387 AA452244 AA150088 AA134361	Hs.169168 Hs.172471 Hs.24950 Hs.10600 Hs.206710 Hs.62113 Hs.21421 Hs.126717 Hs.16727 Hs.27023 Hs.191453	zo8d1.s1 Stratagene neuroepithefium NT2R SW:COX2_MOUSE P45 CYTOCHROME C Clecithin-cholesterol acytransferase ESTs potassium voltage-gated channet; shaker-regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desulfu ESTs KIAA0917 protein ESTs KIAA0917 protein ESTs	OXIDASE P 2.25 2.25 2.25 2.25 2.25 2.24 2.24 2.24	2.25 MB-MDA-435s, HT29_cells, Lu_SC_H69 HMEC (total RNA), Fibrobasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALU6_cells, Lu_SC_H520 LNCaP_cells, DU145_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells, CALU6_cells EB_cells, Lu_SC_H345, Lu_AD_H23
129499 124758 130301 131263 107159 133262 132985 114172 127847 106499 105095 108876	R40395 R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088 AA134361 AA429667	Hs.169168 Hs.172471 Hs.24950 Hs.10600 Hs.206710 Hs.62113 Hs.21421 Hs.126717 Hs.16727 Hs.127023 Hs.191453 Hs.120405	zo8d1.s1 Stratagene neuroepithefium NT2R SW:COX2_MCUSE P45 CYTOCHROME C Clecifhin-cholesterol acythransferase ESTs potassium voltage-gated channel; shaker-regulator of G-protein signalling 5 ESTs; Wealdy similar to ORF YKR081c [S.c ESTs KIAAUT17 protein ESTs; Wealdy similar to cysteine desulfu ESTs KIAAUT17 protein ESTs; Wealdy similar to cysteine desulfu ESTs ESTs	OXIDASE P 2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	2.25 MB-MDA-435s, HT29_cells, Lu_SC_H69 HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALL16_cells, Lu_SC_H520 LNCaP_cells, DU145_cells, Lu_SC_H59 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells (CALU6_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells
129499 124758 130301 131263 107159 133262 132985 114172 127847 106499 105095 108876 121971 114334	R40395 R38422 X83137 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088 AA13463 AA432667 Z41342	Hs. 169168 Hs. 172471 Hs. 24950 Hs. 10600 Hs. 206710 Hs. 62113 Hs. 21421 Hs. 125717 Hs. 16727 Hs. 27023 Hs. 191453 Hs. 120405 Hs. 22941	zo8d1.s1 Stratagene neuroepithefium NT2R SW:COX2_MCUSE P45 CYTOCHROME C C lecithin-cholesterol acytransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desuffu ESTs KIAA0917 protein ESTs ESTs KIAA0917 protein ESTs ESTs ESTs ESTs ESTs	OXIDASE P 2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	2.25 MB-MDA-435s, HT29_cells, Lu_SC_H69 HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALL16_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells, CALL16_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALL16_cells DU145_cells, PC3_cells, EB_cells
129499 124788 130301 131263 107159 133262 132985 114172 106499 105095 108876 121971 114334 114565	R40395 R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088 AA134361 AA429667 Z41342 AA053001	Hs. 169168 Hs. 172471 Hs. 24950 Hs. 10600 Hs. 206710 Hs. 62113 Hs. 21421 Hs. 126717 Hs. 16727 Hs. 27023 Hs. 191453 Hs. 120405 Hs. 22941 Hs. 103527	zo8d1.s1 Stratagene neuroepithefium NT2R SW:COX2_MCUSE P45 CYTOCHROME C Clecifhin-cholesterol acythransferase ESTs potassium voltage-gated channel; shaker-regulator of G-protein signalling 5 ESTs; Wealdy similar to ORF YKR081c [S.c ESTs KIAAUT17 protein ESTs; Wealdy similar to cysteine desulfu ESTs KIAAUT17 protein ESTs; Wealdy similar to cysteine desulfu ESTs ESTs	OXIDASE P 2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	2.25 MB-MDA-435s, HT29_cells, Lu_SC_H69 HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DUH45_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 EB_cells, Lu_AD_H23, Lu_AD_358 Lu_SC_H345, DUH45_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DUH45_cells, LNCaP_cells, CALU6_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells DUH45_cells, PC3_cells, EB_cells Lu_LC_H460, MCF7, HMEC (total RNA)
129499 124758 130301 131263 107159 133262 132985 114172 127847 106499 105095 108876 121971 114334 114566 130889	R40395 R38422 R38327 R38334 AA621340 N72009 AA093619 Z39043 AA913824 AA150088 AA134361 AA420667 Z41342 AA063001 AA421761 AA608546	Hs. 169168 Hs. 172471 Hs. 24950 Hs. 10600 Hs. 206710 Hs. 62113 Hs. 21421 Hs. 126717 Hs. 176727 Hs. 27023 Hs. 191453 Hs. 120405 Hs. 22941 Hs. 103527 Hs. 21906	zo8d1.s1 Stratagene neuroepithefium NT2R SW:COX2_MCUISE P45 CYTOCHROME C of lecifhin-cholesterol acytiransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Wealdy similar to ORF YKR081c [S.c ESTs KIAAUT17 protein ESTs; Wealdy similar to cysteine desutfu ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	OXIDASE P 2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	2.25 MB-MDA-435s, HT29_cells, Lu_SC_H69 HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_358 EB_cells, Lu_AD_H23, Lu_AD_358 EB_cells, Lu_AD_H23, Lu_SC_H69 LNCaP_cells, DU145_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells DU145_cells, PC3_cells, EB_cells Lu_LC_H460, MCF7, HMEC (total RNA) Fibroblasts 2, MB-MDA-435s, MB231_cells
129499 124758 130301 131263 107159 133262 132985 114172 127847 105695 108876 121971 114334 114565 115766 130989 116304	R40395 R38422 X83127 X83134 AAR21340 N72009 AA093619 Z39043 AA913827 AA452244 AA150088 AA134361 AA422761 AA623601 AA622667 AA622661 AA623661 AA623661 AA623661 AA623661 AA623664 AA688461	Hs. 169168 Hs. 172471 Hs. 24950 Hs. 10600 Hs. 206710 Hs. 62113 Hs. 21421 Hs. 126717 Hs. 176727 Hs. 27023 Hs. 191453 Hs. 120405 Hs. 22941 Hs. 103527 Hs. 21906	zo8d1.s1 Stratagene neuroepithefium NT2R SW:COX2_MCUISE P45 CYTOCHROME C of lecifhin-cholesterol acytiransferase ESTs potassium voltage-gated channel; shaker- regulator of G-protein signalling 5 ESTs; Wealdy similar to ORF YKR081c [S.c ESTs KIAAUT17 protein ESTs; Wealdy similar to cysteine desutfu ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	OXIDASE P 2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	2.25 MB-MDA-435s, HT29_cells, Lu_SC_H69 HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DUH45_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 EB_cells, Lu_AD_H23, Lu_AD_358 Lu_SC_H345, DUH45_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DUH45_cells, LNCaP_cells, CALU6_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells DUH45_cells, PC3_cells, EB_cells Lu_LC_H460, MCF7, HMEC (total RNA)
129499 124758 130301 131263 107159 133262 132985 114172 127847 106499 105095 108876 121971 114334 114566 130889	R40395 R38422 X83127 X83134 AAR21340 N72009 AA093619 Z39043 AA913827 AA452244 AA150088 AA134361 AA422761 AA623601 AA622667 AA622661 AA623661 AA623661 AA623661 AA623661 AA623664 AA688461	Hs. 169168 Hs. 172471 Hs. 24950 Hs. 10600 Hs. 206710 Hs. 62113 Hs. 21421 Hs. 126717 Hs. 126717 Hs. 1207023 Hs. 191453 Hs. 120405 Hs. 22941 Hs. 103527 Hs. 17603 Hs. 29169	zo8d1.s1 Stratagene neuroepithefium NT2R SW:COX2_MCUSE P45 CYTOCHROME C Clecithin-cholesterol acytransferase ESTs potassium voltage-gated channet, shaker-regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs Weakly similar to ORF YKR081c [S.c ESTs Weakly similar to cysteine desulfu ESTs; Weakly similar to cysteine desulfu ESTs ESTs KIAA0917 protein ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	OXIDASE P 2.25 2.25 2.25 2.24 2.24 2.24 2.24 2.24	2.25 MB-MDA-435s, HT29_cells, Lu_SC_H69 HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_J358 293T_cells, CALU6_cells, Lu_SC_H59 LNCaP_cells, DU145_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells, CALU6_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells DU145_cells, PC3_cells, EB_cells Lu_LC_H460, MCF7, HMEC (total RNA) Fibroblasts 2, MB-MDA-4335s, MB231_cells PC3_cells, LNCaP_cells, DU145_cells
129499 124758 130301 131263 107159 133262 132985 114172 106499 105095 108876 121971 114334 114565 115766 130889 116304 111154 105561	R40395 R38422 X83127 R38334 AA621340 N72009 AA093619 X39043 AA52244 AA150088 AA134361 AA429667 Z41342 AA063001 AA421761 AA608546 AA489461 N66545 AA489861 AA682881	Hs. 169168 Hs. 172471 Hs. 24950 Hs. 10600 Hs. 206710 Hs. 62113 Hs. 21421 Hs. 125717 Hs. 16727 Hs. 27023 Hs. 191453 Hs. 120405 Hs. 120405 Hs. 103527 Hs. 77603 Hs. 21906 Hs. 64742 Hs. 16029	zo8d1.s1 Stratagene neuroepithefium NT2R SW:COX2_MCUSE P45 CYTOCHROME C Clecithin-cholesterol acytransferase ESTs potassium voltage-gated channel; shaker-regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KlAA0717 protein ESTs; Weakly similar to cysteine desulfu ESTs ESTs KLAA0917 protein ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	OXIDASE P 2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	225 MB-MDA-435s, HT29_cells, Lu_SC_H69 HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALL16_cells, Lu_SC_H520 LNCaP_cells, DU145_cells, Lu_SC_H59 Lu_SC_H345, MB-MDA-435, Lu_SC_H69 DU145_cells, LNCaP_cells, CALL16_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALL16_cells DU145_cells, PC3_cells, EB_cells Lu_LC_H460, MCF7, HMEC (total RNA) Fibroblasts 2, MB-MDA-435s, MB231_cells PC3_cells, LNCaP_cells, DU145_cells PC3_cells, LNCaP_cells, DU145_cells FC3_cells, LNCaP_cells, LNCaP_cells
129499 124758 130301 131263 107159 133262 132985 114172 127847 105095 108876 121971 114334 114565 115766 130989 116304 111554 105539	R40395 R38422 R38342 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088 AA134361 AA429667 Z41342 AA063001 AA421761 AA608546 AA489461 N6626545 AA6625881 AA6404421	Hs. 169168 Hs. 172471 Hs. 24950 Hs. 10600 Hs. 206710 Hs. 62113 Hs. 126717 Hs. 126717 Hs. 127023 Hs. 120405 Hs. 120405 Hs. 22941 Hs. 103527 Hs. 77603 Hs. 249169 Hs. 16029 Hs. 16029 Hs. 16258	zo8d1.s1 Stratagene neuroepithefium NT2R SW:COX2_MCUSE P45 CYTOCHROME C Clecifhin-cholesterol acytiransferase ESTs potassium voltage-gated channel; shaker-regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YMR081c [S.c ESTs KIAA0717 protein ESTs; Weakly similar to cysteine desulfu ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	OXIDASE P 2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	225 MB-MDA-435s, HT29_cells, Lu_SC_H69 HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALL16_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells, CALL16_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALL16_cells DU145_cells, PC3_cells, EB_cells Lu_LC_H460, MCF7, HMEC (total RNA)
129499 124758 130301 131263 107159 133262 132985 114172 127847 105095 108876 121971 114334 114565 115766 130989 116304 111154 1055639 116303 1105939 126379	R40395 R38422 R383127 R38334 AA621340 N72009 AA093619 Z39043 AA491337 AA452244 AA150088 AA134361 AA429667 Z41342 AA608546 AA489461 N66545 AA4689461 N66545 AA468342 AA6085342	Hs. 169168 Hs. 172471 Hs. 24950 Hs. 10600 Hs. 206710 Hs. 62113 Hs. 21421 Hs. 126717 Hs. 16727 Hs. 120405 Hs. 22941 Hs. 103527 Hs. 77603 Hs. 21906 Hs. 64742 Hs. 21906 Hs. 16029 Hs. 16029 Hs. 16029 Hs. 166146	zo8d1.s1 Stratagene neuroepithefium NT2R SW:COX2_MCUSE P45 CYTOCHROME C Clecifhin-cholesterol acythransferase ESTs potassium voltage-gated channel; shaker-regulator of G-protein signalling 5 ESTs; Wealdy similar to ORF YKR081c [S.c ESTs KIAAUT17 protein ESTs; Wealdy similar to cysteine desutfu ESTs KIAAUT17 protein ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	OXIDASE P 2.25 2.25 2.25 2.24 2.24 2.24 2.24 2.24	2.25 MB-MDA-435s, HT29_cells, Lu_SC_H69 HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DUH45_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 EB_cells, Lu_AD_H23, Lu_AD_358 Lu_SC_H345, DUH45_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DUH45_cells, LNCaP_cells, CALU6_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells DUH45_cells, PC3_cells, EB_cells Lu_LC_H460, MCF7, HMEC (total RNA) Fibroblasts 2, MB-MDA-435s, MB231_cells PC3_cells, LNCaP_cells DUH45_cells, DH45A-435s, MB231_cells FBT474_cells, EB_cells, LNCaP_cells OVCAR_cells, MB-MDA-435s, HMEC HS578T_cells, A549_cells, HMEC
129499 124758 130301 131263 107159 133262 132985 114172 105499 105095 108876 121971 114334 114565 130989 116304 111154 105939 116304 111154 105939 105939 105939 105939 105939 105939 105939 105939 105939 105939 105939 105939	R40395 R38422 X83127 R38334 AA621340 N72009 AA093619 Z39043 AA91383 AA415088 AA15088 AA15088 AA15088 AA15088 AA65001 AA620761 AA608546 AA608421 AA608546 AA608421 AA608546 AA608421 AA608546 AA608421 AA608546 AA608421 AA608588	Hs. 169168 Hs. 172471 Hs. 24950 Hs. 10600 Hs. 206710 Hs. 62113 Hs. 21421 Hs. 126717 Hs. 176727 Hs. 17023 Hs. 120405 Hs. 22941 Hs. 103527 Hs. 77603 Hs. 21906 Hs. 64742 Hs. 29169 Hs. 16029 Hs. 16029 Hs. 16029 Hs. 16024 Hs. 12258 Hs. 166146 Hs. 4832	zo8d1.s1 Stratagene neuroepithefium NT2R SW:COX2_MCUSE P45 CYTOCHROME C Clecifhin-cholesterol acytransferase ESTs potassium voltage-gated channel; shaker-regulator of G-protein signalling 5 ESTs; Wealdy similar to ORF YKR081c [S.c ESTs KUAA0717 protein ESTs; Wealdy similar to cysteine desutfu ESTs KUAA0917 protein ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	OXIDASE P 2.25 2.25 2.25 2.25 2.24 2.24 2.24 2.24	225 MB-MDA-435s, HT29_cells, Lu_SC_H69 HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, Lu_SC_H69 LU_SC_H345, DU145_cells, Lu_SC_H520 LNCaP_cells, CALLI6_cells, Lu_SC_H520 LNCaP_cells, CALLI6_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-435, Lu_SC_H69 DU145_cells, LlnCaP_cells, CaLLI6_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALLI6_cells DU145_cells, LNCaP_cells, CALLI6_cells DU145_cells, PC3_cells, EB_cells Lu_LC_H460, MCF7, HMEC (total RNA) Fibroblasts 2, MB-MDA-435s, MB231_cells PC3_cells, LNCaP_cells, DU145_cells BT474_cells, EB_cells, LNCaP_cells OVCAR_cells, MB-MDA-435s, HMEC HS578T_cells, A549_cells, HMEC EB_cells, LNCaP_cells, HMEC EB_cells, LNCaP_cells, DU145_cells HS578T_cells, PC3_cells, RPWE_2 DU145_cells, MCF7, Lu_SC_H345
129499 124758 130301 131263 107159 133262 132985 114172 127847 106499 105095 108876 121971 114334 114565 115766 13098 116304 111154 105561 105939 126379 106610 132786	R40395 R38422 X33127 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088 AA13436 AA429667 Z41342 AA663546 AA608545 AA262881 AA408545 AA458882 AA458882 AA458882	Hs. 169168 Hs. 172471 Hs. 24950 Hs. 10600 Hs. 206710 Hs. 62113 Hs. 21421 Hs. 126717 Hs. 170723 Hs. 191453 Hs. 120405 Hs. 22941 Hs. 103527 Hs. 77603 Hs. 21906 Hs. 64742 Hs. 29169 Hs. 16029 Hs. 16029 Hs. 16028 Hs. 16546 Hs. 4832 Hs. 56851	zo8d1.s1 Stratagene neuroepithefium NT2R SW:COX2_MCUSE P45 CYTOCHROME C Clecifhin-cholesterol acythransferase ESTs potassium voltage-gated channel; shaker-regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KMAA0717 protein ESTs; Weakly similar to cysteine desutfu ESTs KMAA0717 protein ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	OXIDASE P 2.25 2.25 2.25 2.24 2.24 2.24 2.24 2.24	225 MB-MDA-435s, HT29_cells, Lu_SC_H69 HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALL16_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DU145_cells, LNCaP_cells, CALL16_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALL16_cells DU145_cells, PC3_cells, EB_cells Lu_LC_H460, MCF7, HMEC (total RNA)
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129499 124788 130301 131263 107159 133262 132985 114172 106499 105095 108876 121971 114334 114565 115766 130989 116304 111154 105561 105939 126379 106610 132786	R40395 R38422 X83127 R38334 AA621340 N72009 AA093619 Z34333 AA513387 AA452244 AA150088 AA134361 AA429667 Z41342 AA063001 AA421761 AA608546 AA489461 N66545 AA689461 AA60421 AU05342 AA65882 AA424545 D20728 R42172	Hs. 169168 Hs. 172471 Hs. 24950 Hs. 10600 Hs. 206710 Hs. 62113 Hs. 21421 Hs. 125717 Hs. 16727 Hs. 16727 Hs. 120405 Hs. 120405 Hs. 120405 Hs. 120405 Hs. 120541 Hs. 103527 Hs. 17603 Hs. 21906 Hs. 64742 Hs. 29169 Hs. 166146 Hs. 4832 Hs. 56851 Hs. 30767 Hs. 75667	zo8d1.s1 Stratagene neuroepithefium NT2R SW:COX2_MCUSE P45 CYTOCHROME C Clecithin-cholesterol acytransferase ESTs potassium voltage-gated channel; shaker-regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KlAA0717 protein ESTs; Weakly similar to cysteine desulfu ESTs ESTs KLAA0917 protein ESTs ESTs SH2 domain protein 2A ESTs ESTs ESTs SH2 domain protein 2A ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	EXIDASE P 225 225 225 225 225 224 224 224 224 224	225 MB-MDA-435s, HT29_cells, Lu_SC_H69 HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DUH45_cells, LNCaP_cells EB_cells, Lu_AD_H23, Lu_AD_358 EB_cells, Lu_AD_H23, Lu_AD_358 Lu_SC_H345, DUH45_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 Lu_SC_H345, MB-MDA-453, Lu_SC_H69 DUH45_cells, LNCaP_cells, CALU6_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells DUH45_cells, PC3_cells, EB_cells Lu_LC_H460, MCF7, HMEC (total RNA) Fibroblasts 2, MB-MDA-435s, MB231_cells PC3_cells, LNCaP_cells, DUH45_cells OVCAR_cells, MB-MDA-435s, HMEC EB_cells, LNCaP_cells, DUH45_cells OVCAR_cells, MB-MDA-435s, HMEC EB_cells, LNCaP_cells, DUH45_cells HS578T_cells, A549_cells, HMEC EB_cells, LNCaP_cells, DUH45_cells HS578T_cells, PC3_cells, RPWE_2 DUH45_cells, MCF7, Lu_SC_H345 EB_cells, Lu_AD_H23, Fibroblasts 2 BT474_cells, Fibroblasts 2, MB-MDA-435s Lu_SC_H345, CALU6_cells, Lu_SC_H69
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129499 124758 130301 131263 107159 133262 132985 114172 106499 105095 103876 121971 114334 114565 115766 13098 116304 111154 105561 105939 126379 126570 132786 13708 135123 132156 115934 133660	R40395 R38422 X33127 R38334 AA621340 N72009 AA093619 AA093619 AA452244 AA150088 AA452657 Z41342 AA653001 AA421767 Z41342 AA65856 AA668546 AA68856 AA68856 AA68856 AA68856 AA6886 AA6886 AA6886 AA6886 AA6886 AA6886 AA6886	Hs. 169168 Hs. 172471 Hs. 24950 Hs. 10600 Hs. 206710 Hs. 62113 Hs. 21421 Hs. 126717 Hs. 16727 Hs. 27023 Hs. 191453 Hs. 120405 Hs. 103527 Hs. 17603 Hs. 21906 Hs. 64742 Hs. 103527 Hs. 16029 Hs. 16029 Hs. 16029 Hs. 16029 Hs. 1606146 Hs. 4832 Hs. 166146 Hs. 4832 Hs. 16029	zo8d1.s1 Stratagene neuroepithefium NT2R SW:COX2_MCUSE P45 CYTOCHROME C Clecithin-cholesterol acytransferase ESTs potassium voltage-gated channet, shaker-regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs (Weakly similar to ORF YKR081c [S.c ESTs (Weakly similar to cysteine desulfu ESTs; Weakly similar to cysteine desulfu ESTs ESTs (KIAA0917 protein ESTs ESTs (KIAA0917 protein ESTs ESTs SH2 domain protein 2A ESTs ESTs ESTs SH2 domain protein 2A ESTs ESTs (Weakly similar to alternatively sp ESTs; Weakly similar to alternatively sp ESTs; Weakly similar to lasp-1 protein H sapiens mRNA expressed in placenta ESTs synaptophysin target of myto1 (chicken) homolog S-adenosythomocysteine hydrolase-like 1 ESTs ym88e05.r1 Soares adult brain N2b4HB55Y IMAGE:166016 5', mRNA seq. ESTs	EXIDASE P 225 225 225 225 225 224 224 224 224 224	225 MB-MDA-435s, HT29_cells, Lu_SC_H69 HMEC (total RNA), Fibroblasts 2, HMEC 239T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, Lu_SC_H69 LNCaP_cells, Lu_AD_H23, Lu_AD_338 293T_cells, CALU6_cells, Lu_SC_H69 Lu_SC_H345, MB-MDA-435, Lu_SC_H69 Lu_SC_H345, MB-MDA-435, Lu_SC_H69 DU145_cells, Ll_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALU6_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, EB_cells Lu_LC_H460, MCF7, HMEC (total RNA) Fibroblasts 2, MB-MDA-435s, MB231_cells BT474_cells, EB_cells, LNCaP_cells OVCAR_cells, MB-MDA-435s, HMEC HS578T_cells, PC3_cells, IMEC EB_cells, Lu_AD_H23, Fibroblasts 2 DU145_cells, MCF7, Lu_SC_H345 EB_cells, Lu_AD_H23, Fibroblasts 2 DU145_cells, MCF7, Lu_SC_H345 EB_cells, Lu_AD_H23, Fibroblasts 2 DU145_cells, MB231_cells, EB_cells DU145_cells, MB231_cells, EB_cells DU145_cells, MB231_cells, EB_cells DU145_cells, Lu_SC_H345, Lu_LC_H460 DU145_cells, Lu_SC_H345, Lu_LC_H460 DU145_cells, Lu_SC_H345, Lu_LC_H460 DU145_cells, MB-MDA-435, OVCAR_cells
129499 124758 130301 131263 107159 133262 132985 114172 106499 105095 103876 121971 114334 114565 115766 13098 116304 111154 105561 105939 126379 126570 132786 13708 135123 132156 115934 133660	R40395 R38422 X33127 R38334 AA621340 N72009 AA093619 Z39043 AA913387 AA452244 AA150088 AA13432 AA653001 AA427617 AA608545 AA608545 AA688461 N66545 AA262881 AA40421 AA68882 AA424545 D20728 R42172 AA62757 AA157401 H75624 R87373 W23633 L33801 AA253460	Hs. 169168 Hs. 172471 Hs. 24950 Hs. 10600 Hs. 206710 Hs. 62113 Hs. 21421 Hs. 126717 Hs. 16727 Hs. 27023 Hs. 191453 Hs. 120405 Hs. 103527 Hs. 17603 Hs. 21906 Hs. 64742 Hs. 103527 Hs. 16029 Hs. 16029 Hs. 16029 Hs. 16029 Hs. 1606146 Hs. 4832 Hs. 166146 Hs. 4832 Hs. 16029	zo8d1.s1 Stratagene neuroepithefium NT2R SW:COX2_MCUSE P45 CYTOCHROME C Clecifhin-cholesterol acytransferase ESTs potassium voltage-gated channel; shaker-regulator of G-protein signalling 5 ESTs; Weakly similar to ORF YKR081c [S.c ESTs KMAAU717 protein ESTs; Weakly similar to cysteine desutfu ESTs (KMAAU717 protein ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	EXIDASE P 225 225 225 225 225 224 224 224 224 224	225 MB-MDA-435s, HT29_cells, Lu_SC_H69 HMEC (total RNA), Fibroblasts 2, HMEC 293T_cells, RPWE_2, Lu_LC_H460 EB_cells, OVCAR_cells, A549_cells Lu_AD_H23, EB_cells, Lu_SC_H69 LNCaP_cells, HMEC, EB_cells Lu_SC_H345, DU145_cells, Lu_SC_H69 LNCaP_cells, Lu_AD_H23, Lu_AD_358 293T_cells, CALL16_cells, Lu_SC_H520 LNCaP_cells, CALL16_cells, Lu_SC_H59 Lu_SC_H345, MB-MDA-435, Lu_SC_H69 Lu_SC_H345, MB-MDA-435, Lu_SC_H69 DU145_cells, LNCaP_cells, CALL16_cells EB_cells, Lu_SC_H345, Lu_AD_H23 Lu_AD_H23, 293T_cells, CALL16_cells DU145_cells, PC3_cells, EB_cells Lu_LC_H460, MCF7, HMEC (total RNA) Fibroblasts 2, MB-MDA-435s, MB231_cells PC3_cells, LNCaP_cells, DU145_cells BT474_cells, EB_cells, LNCaP_cells OVCAR_cells, MB-MDA-435s, HMEC HS578T_cells, S459_cells, HMEC EB_cells, Lu_AD_H23, Fibroblasts 2 DU145_cells, MCF7, Lu_SC_H345 EB_cells, Lu_AD_H23, Fibroblasts 2 DU145_cells, FIbroblasts 2, MB-MDA-435s Lu_SC_H345, CALL16_cells, Lu_SC_H69 BT474_cells, Fibroblasts 2, MB-MDA-435s Lu_SC_H345, CALL16_cells, Lu_SC_H69 BT474_cells, Fibroblasts 2, MB-MDA-435s Lu_SC_H345, CALL16_cells, Lu_SC_H69 BT474_cells, MB231_cells, Lu_SC_H69 BT474_cells, Fibroblasts 2, MB-MDA-435s Lu_SC_H345, CaLL16_cells, Lu_SC_H69 BT474_cells, MB231_cells, Lu_SC_H69 BT474_cells, MB231_cells, Lu_SC_H69 BT474_cells, Fibroblasts 2, MB-MDA-435s Lu_SC_H345, CALL16_cells, Lu_SC_H69 BT474_cells, MB231_cells, EB_cells DU145_cells, A549_cells, PC3_cells 233T_cells, MB-MDA-453, OVCAR_cells Lu_SC_H345, EB_cells, MB-MDA-435s Lu_SC_H345, EB_cells, MB-MDA-435s

114148	Z38804	Hs.184777	ESTs; Moderately similar to OPIOID BINDI		
•			MOLECULE PRECURSOR [H.sapiens]	2.23	HS578T_cells, Fibroblasts 2, Lu_SC_H345
	X98001	Hs.78948		2,22	LNCaP_ceils, EB_ceils, 293T_ceils
	AA027112			2.22	EB_cells, Lu_AD_H23, Fibroblasts 2
	N90029	Hs.6831	H sapiens clone 1400 unknown protein mRN		293T_cells, PC3_cells, DU145_cells
			ring finger protein 2	2.22	EB_cells, Lu_SC_H69, Lu_SC_H345
	R75630	Hs.177242	•	2.22	EB_cells, Lu_AD_H23, Lu_SC_H345
	H05734	Hs.30559		2.22	Lu_SQ_H520, 293T_cells, RPWE_2
	Al305162			2.22	MCF7, HT29_cells, MB-MDA-453
	U77456		nucleosome assembly protein 1-like 4	2.22	Caco2, EB_cells, CALU6_cells
	AA427625			2.22	293T_cells, EB_cells, A549_cells
	N79045		ESTs; Weakly similar to IIII ALU SUBFAMI	2.22	Lu_SC_H345, Lu_SC_H69, DU145_cells
	U16306		chondrollin sulfate proteoglycan 2 (vers	2.22	HS578T_cells, PRSC_log, CALU6_cells
	R51248	Hs.16027		2.22	293T_cells, HMEC (total RNA), HMEC (total RNA)
	AA609591		ribosomal protein S11	2.22	HT29_cells, HMEC (total RNA), BT474_cells
	AA448271			2.22 2.21	EB_ceils, Lu_AD_H23, Lu_AD_358
	R37753	Hs.106985		2.21	Lu_AD_H23, HT29_cells, Lu_AD_358 EB_cells, Lu_AD_H23, Lu_SC_H345
	R05835		ESTs; Weakly similar to B-CELL GROWTH F		2.21 EB_cells, Lu_AD_H23, Lu_AD_358
	AA442853		cyclin-dependent kinase 5; regulatory su	2.21	HT29_cells, Lu_LC_H460, Lu_SC_H69
	AA424570			2.21	EB_cells, Lu_AD_H23, Lu_SC_H69
			U4/U6-associated RNA splicing factor	2.21	MCF7, Lu_SC_H345, DU145_cells
	AA431191			2.21	EB_cells, Caco2, DU145_cells
	AA370091			22	EB_cells, Lu_AD_H23, Lu_SC_H69
	AA255874		ESTs	22	LNCaP_cells, DU145_cells, PC3_cells
	N93503	Hs.54961		22	293T_cells, HS578T_cells, OVCAR_cells
	AA346041			2.2	HT29_cells, HS578T_cells, 293T_cells
	AA425382		ESTs	2.2	CALU6 cells, PC3 cells, EB cells
102121	U14391	Hs.82251	myosin IC	2.2	A549_cells, EB_cells, Caco2
109446	AA232125	Hs.87062	ESTs	2.2	HT29_cells, Lu_LC_H460, CALU6_cells
129515	AA490882	Hs.112227	ESTs	2.2	Lu_SC_H345, BT474_cells, Cacc2
	T49325	Hs.8977	ESTs	2.2	Lu_SQ_H520, Lu_AD_H23, Lu_AD_358
	AI041014			2.2	EB_cells, Lu_AD_H23, Lu_AD_H23
			ESTs; Highly similar to NY-REN-6 antigen	2.2	CALU6_cells, A549_cells, EB_cells
	AA411685			2.2	OVCAR_cells, EB_cells, Caco2
	AA431873		H sapiens clone 24711 mRNA seq	2.2	Lu_SQ_H520, EB_cells, PC3_cells
	T03593	Hs.182814		2.19	A549_cells, OVCAR_cells, 293T_cells
116902	H70739		yu69f11.s1 Welzmann Olfactory Epithelium	0.40	INO-D B- DIMAR B- DOS B-
405004	************	II- core	IMAGE:239085 3' similar to contains LTR	2.19	LNCaP_cells, DU145_cells, PC3_cells
	AA280865		H saplens mRNA; cDNA DKFZp564K0222 (fr		2.19 HMEC, Caco2, HMEC (total RNA)
	R31652 R08234	Hs.821 Hs.180461	biglycan	2.19	Fibrobiasts 2, Lu_SC_H69, HS578T_cells
	AA082973	IIS, 10040 I		2.19	Lu_AD_358, Lu_AD_H23, Lu_SQ_H520
100431	PANDOZSIJ		zn7g1.s1 Stratagene hNT neuron (#937233) to gb:M3672 6S RIBOSOMAL PROTEIN L7A	. nu	2.19 Lu_AD_358, RPWE_2, Lu_LC_H460
10007R	H09356	Hs.22528		2.19	PRSC_log, Lu_SC_H345, Lu_SC_H69
	AA521354			2.19	EB_cells, LNCaP_cells, OVCAR_cells
	AA443919		· · · · · · · · · · · · · · · · · · ·	2.19	EB_cells, Lu_AD_358, PRSC_con
	AI016490			2.19	HT29_cells, Lu_SC_H69, Lu_AD_H23
	H97188	Hs.35096	, , , , , , , , , , , , , , , , , , , ,	2.19	DU145_cells, Fibroblasts 2, PRSC_con
	R11267		H sapiens chromosome 19; cosmid F22329	2.19	293T cells, MB-MDA-435s, A549 cells
			ESTs; Wealty similar to coded for by C.	2.18	MCF7, MB-MDA-453, Lu_SQ_H520
	W84738	Hs.137319		2.18	293T_cells, 293T_cells, OVCAR_cells
118594	N69022	Hs.49599	ESTs	2.18	Lu_SC_H69, Lu_AD_H23, Lu_SC_H345
129786	H98977	Hs.246109	ESTs	2.18	293T_cells, 293T_cells, 293T_cells
104325	D81608	Hs.150675	polymerase (RNA) II (DNA directed) polyp	2.18	PC3_cells, Lu_SC_H345, LNCaP_cells ==
123022	AA480909		aa28f10.s1 NCL_CGAP_GCB1 H sapiens cDf	<b>VA</b>	
			Alu repetitive element; contains element	2.18	OVCAR_cells, DU145_cells, LNCaP_cells
	W94333	Hs.7499	translocase of Inner mitochondrial membr	2.18	Caco2, LNCaP_cells, Lu_SQ_H520
	AA479713			2.18	EB_cells, Lu_AD_H23, Fibroblasts 2
	AA053319			2.18	EB_cells, 293T_cells, Caco2
		MS.115095	ESTs; Wealthy similar to RHO-RELATED GTP	<b>L</b>	2.18 LILSC_H345, OVCAR_cells,
DU145_		11- 477000	FMT-	0.40	ED 1- 1- AD 1900 1- 00 1900
	AA011597			2.18	EB_cells, Lu_AD_H23, Lu_SQ_H520
	AA235618	MS.ZU01Z0		2.18	DU145_cells, 293T_cells, OVCAR_cells
	H28737	Un 4F474	ESTs; Moderately similar to IIII ALU SUB	2.18	Lu_SC_H69, Lu_SC_H345, HS578T_cells
	T85105	Hs.15471		2.18	EB_cells, Lu_AD_H23, Lu_SC_H69 PRSC_con, Lu_SC_H345, PRSC_log
	N31909 E13608	Hs.44278 Hs.26226		2.18	293T_cells, LNCaP_cells, OVCAR_cells
	F13608 U70370		paired-like homeodomain transcription fa	2.18 2.18	Caco2, BT474_cells, MB231_cells
	AA922969			217	MB-MDA-453, MB-MDA-453, Lu_SC_H345
134585	T48154		H sapiens mRNA for H-2K binding factor-2	2.17	LNCaP_cells, 293T_cells, PRSC_log
	AA101723			2.17	EB_cells, MCF7, DU145_cells
	AA091017		ESTs	2.17	Caco2, LNCaP_cells, DU145_cells
	M36089		X-ray repair complementing defective rep	2.17	HMEC (total RNA), Fibroblasts 2, HMEC
113171			EST		
	134013	Hs.9761	COI	2.17	HT29_cells, PRSC_con, Lu_SQ_H520
117736	N46999	Hs.46648		2.16	PRSC_log, OVCAR_cells, A549_cells

	W58461	Hs.12396	ESTs	2.16	LNCaP_cells, DU145_cells, 293T_cells
120187	Z40251	Hs.56974	ESTs	2.16	LNCaP_cells, MB-MDA-453, HMEC (total RNA)
100308	D50532	Hs.54403	macrophage lectin 2 (calcium dependent)	2.16	HT29_cells, Lu_AD_H23, Lu_AD_H23
110960	N50887	Hs.26549	ESTs; Wealty similar to KIAA0449 protein	2.16	Caco2, A549_cells, LNCaP_cells
113608	T93113		ESTs; Moderately similar to IIII ALU SUB	2.16	Lu_SC_H59, CALLI6_cells, 293T_cells
107538	Z21089	Hs.50094	ESTs; Weakly similar to KALIRIN [R.norve	2.16	HS578T_cells, 293T_cells, DU145_cells
	576992		vav 2 oncogene	216	RPWE_2, Lu_SC_H69, HT29 cells
	Al366484		ESTs	216	293T_cells, CALU6_cells, A549_cells
		Hs 124084	ESTs; Weakly similar to IIII ALU SUBFAMI	216	
120407	AA235040	Hs 107283	. ESTe		DU145_cels, LNCaP_cels, OVCAR_cels
	AA400371			2.16	EB_cells, 293T_cells, A549_cells
	AA243867			2.16	Lu_AD_358, Lu_AD_H23, A549_cells
	D63874	Lis 10000	hish mobility comm (non-history ab-	2.16	DU145_cells, PRSC_con, LNCaP_cells
		15.105509	high-mobility group (northistone chromoso	2.15	CALU6_cells, MB-MDA-453, Caco2
	T88822 N22181		yd32f5.s1 Soares fetal liver spleen 1NFL	2.15	Lilad_H23, Lilsc_H69, Lilsc_H345
		t I. 400000	yw36d12.s1 Morton Fetal Cochlea H sapten	2.15	293T_cells, Lu_SC_H345, Lu_SC_H69
1320/0	AA130003	IIS.109003	ESTs; Moderately similar to IIII ALU SUB	2.15	EB_cells, LNCaP_cells, HS578T_cells
		rs. 134/3/	serine protease; umbilical endothelium	2.15	DU145_cells, EB_cells, Caco2
	AA169866	11- 0400	ESTs; Wealty similar to IIII ALU SUBFAMI	2.15	DU145_cells, LNCaP_cells, OVCAR_cells
	AA490142		ESTs	2.15	Fibroblasts 2, Lu_AD_H23, PRSC_con
129398	AA43/3/4	H9.2345/3	H saplens mRNA for TL132	2.15	MCF7, DU145_cells, LNCaP_cells
	AA044274			2.15	Lu_AD_358, MB-MDA-453, HS578T_cells
	U56637	H9.1842/0	capping protein (actin tilament) muscle	2.15	LNCaP_cells, EB_cells, PC3_cells
	N80671	Hs.220255		2.14	EB_cells, DU145_cells, MCF7
	AA342049			2.14	293T_cells, Caco2, Lu_SC_H69
	AA598981			2.14	Lu_SC_H345, DU145_cells, MCF7
	W73951	Hs.58348	ESTs; Wealty similar to CORNIFIN A [H.sa	2.14	293T_cells, HS578T_cells, CALU6_cells
	AA227926	Hs.6682	ESTs	2.14	A549_cells, HMEC (total RNA), EB_cells
	W81679	Hs.5174	ribosomal protein S17	2.14	293T_cells, CALU6_cells, HMEC (total RNA) -
132348	AA037285	Hs.170311	heterogeneous nuclear ribonucleoprotein	2.14	A549_cells, HT29_cells, Lu_SQ_H520 -
114425	AA015763	Hs.132812	ESTs	2.14	293T_cells, HS578T_cells, PRSC_con
127759	Al369384		arylsulfatase D	2.14	DU145_cells, LNCaP_cells, EB_cells
134069	U29607	Hs.78935	methionine aminopeptidase; elF-2-associa	2.14	Lu_SC_H345, DU145_cells, MCF7
116158	AA461187	Hs.61762	ESTs	2.14	Lu_SC_H69, MCF7, MB-MDA-453
125627	R35166	Hs.14881	ESTs	2.14	HT29_cells, Fibroblasts 2, BT474_cells
	N71364	Hs.109510		2.14	OVCAR_cells, PRSC_con, HS578T_cells
	T97977	Hs.60260		2.14	Lu_AD_H23, Lu_SQ_H520, Lu_SQ_H520
	N67515	Hs.6479	ESTs; Weakly similar to KIAA0872 protein	2.14	EB_cells, Lu_AD_H23, Lu_AD_358
	R45445		H sapiens mRNA; cDNA DKFZp434D115 (fro	ATTI	2.13 Lu_AD_H23, Lu_AD_358, BT474_cells
	AA236019	Hs.188803	ESTs	2.13	MB-MDA-453, MCF7, Lu_SQ_H520
	H08773		yi94d5.s1 Soares infant brain 1NIB H sap	2.13	Lu_SC_H69, Fibroblasts 2, HMEC (total RNA)
	R39191	Hs.109445	KIAA1020 protein	2.13	Caco2, 293T_cells, Lu_SC_H69
	W86835		copine III	2.13	LNCaP_cells, PC3_cells, HS578T_cells
	AA196306			2.13	Lu_SC_H345, Lu_SC_H69, Lu_LC_H460
	N24581		ESTs .	2.13	HS578T_cells, CALU6_cells, PRSC_con
			H sapiens done 23585 mRNA seq	2.13	
	R96478	Hs.16586		2.13	LNCaP_cells, Caco2, EB_cells EB_cells, Lu_AD_H23, Lu_SC_H69
	AA428576			2.13	EB_ceils, Lu_SC_H345, OVCAR_ceils
127499			tumor protein; translationally-controlle	2.13	EB_cells, PRSC_con, LNCaP cells
		Hs 74615	platelet-derived growth factor receptor;	2.13	
124270	H79560	Hs.107840		2.13	EB_cells, Lu_AD_H23, Lu_SC_H69
133766			cell division cycle 10 (homologous to CD	2.12	OVCAR_cells, 293T_cells, 293T_cells
		He 1800CR	ESTs; Highly similar to sec61 homolog [H	2.12	CALU6_cells, DU145_cells, PC3_cells
106724	AA465226	He 28631	ESTe	2.12	HT29_cells, MB231_cells, HMEC (total RNA)
	HG2264-H		Alpase, Ca2+Transporting, Plasma Membra		EB_cells, 293T_cells, DU145_cells
	AA450187			2.12	EB_cells, Lu_AD_H23, Lu_SC_H69
	H94650	Hs.108002		212	OVCAR_cells, PC3_cells, 293T_cells _=
113059			vesicle-associated membrane protein 8 (e		MB-MDA-453, Lu_SC_H345, HT29_ceils
113241				2.12	MB-MDA-453, PC3_cells, LNCaP_cells
		Hs.21296	ESTs; Moderately similar to IIII ALU SUB	2.12	HMEC (total RNA), BT474_cells, HMEC
	R40782			2.12	HT29_cells, PC3_cells, A549_cells
	W86519 AA043944	Hs.19631		2.12	PC3_cells, EB_cells, LNCaP_cells
	AVIUNDS44	ITS:02003		2.12	EB_cells, OVCAR_cells, 293T_cells
	H63994	Hs.221134		2.12	Fibroblasts 2, MB-MDA-453, PRSC_con
106400	H63994 AA447621	Hs.221134 Hs.31257	ESTs .	2.12	DU145_cells, EB_cells, Caco2
106400 119590	H63994 AA447621 W44798	Hs.221134 Hs.31257 Hs.55876	ESTs :	2.12 2.12	DU145_cells, EB_cells, Caco2 PRSC_log, Lu_SC_H69, Lu_SC_H345
106400 119590 112434	H63994 AA447621 W44798 R63068	Hs.221134 Hs.31257 Hs.55876 Hs.159793	ests . Ests Est	2.12	DU145_cells, EB_cells, Caco2
106400 119590 112434	H63994 AA447621 W44798	Hs.221134 Hs.31257 Hs.55876 Hs.159793	ESTs ESTs EST aa92b1.s1 Stratagene fetal retina 93722	2.12 2.12 2.11	DU145_cells, EB_cells, Caco2 PRSC_Jog, Lu_SC_H69, Lu_SC_H345 HS578T_cells, LNCaP_cells, OVCAR_cells
106400 119590 112434 122731	H63994 AA447621 W44798 R63068 AA457549	Hs.221134 Hs.31257 Hs.55876 Hs.159793	ESTs ESTs EST aa92b1.s1 Stratagene fetal retina 93722 gb:XS275_ma3 LEUKOSIALIN PRECURSOI	2.12 2.12 2.11 R (HU	DU145_cells, EB_cells, Caco2 PRSC_log, Lu_SC_H69, Lu_SC_H345
106400 119590 112434 122731 115348	H63994 AA447621 W44798 R63068 AA457549 AA281562	Hs.221134 Hs.31257 Hs.55876 Hs.159793 Hs.88860	ESTs ESTs EST as92b1.s1 Stratagene fetal retina 93722 gbtXS275_ma3 LEUKOSIALIN PRECURSOI ESTs	2.12 2.12 2.11	DU145_cells, EB_cells, Caco2 PRSC_log, Lu_SC_H69, Lu_SC_H345 HS578T_cells, LNCaP_cells, OVCAR_cells 2.11 MB-MDA-453, RPWE_2, MCF7 EB_cells, Lu_AD_H23, Fibroblasts 2
105400 119590 112434 122731 115348 128873	H63994 AA447621 W44798 R63068 AA457549 AA281562 AA226768	Hs.221134 Hs.31257 Hs.55876 Hs.159793 Hs.88860 Hs.109463	ESTs ESTs EST asa92b1.s1 Stratagene fetal retina 93722 gb:XS275_ma3 LEUKOSIALIN PRECURSOI ESTs ESTs; Weakly similar to predicted using	2.12 2.12 2.11 R (HU	DU145_cells, EB_cells, Caco2 PRSC_Jog, Lu_SC_H69, Lu_SC_H345 HS578T_cells, LNCaP_cells, OVCAR_cells 2.11 MB-MDA-453, RPWE_2, MCF7
105400 119590 112434 122731 115348 128873 133742	H63994 AA447621 W44798 R63068 AA457549 AA281562 AA226768 T54301	Hs.221134 Hs.31257 Hs.55876 Hs.159793 Hs.88860 Hs.109463 Hs.75844	ESTs ESTs EST aa92b1.s1 Stratagene fetal retina 93722 gbtX5275_ma3 LEUKOSIALIN PRECURSOI ESTs ESTs; Weakly similar to predicted using ESTs	2.12 2.12 2.11 R (HU 2.11	DU145_cells, EB_cells, Caco2 PRSC_log, Lu_SC_H69, Lu_SC_H345 HS578T_cells, LNCaP_cells, OVCAR_cells 2.11 MB-MDA-453, RPWE_2, MCF7 EB_cells, Lu_AD_H23, Fibroblasts 2
105400 119590 112434 122731 115348 128873 133742 102099	H63994 AA447621 W44798 R63068 AA457549 AA281562 AA226768 T54301 U11870	Hs.221134 Hs.31257 Hs.55876 Hs.159793 Hs.88860 Hs.109463 Hs.75844 Hs.194778	ESTs ESTs EST EST as92b1.s1 Stratagene fetal retina 93722 gbcX5275_ma3 LEUKOSIALIN PRECURSOR ESTs ESTs; Weakly similar to predicted using ESTs interleukin 8 receptor, alpha	2.12 2.12 2.11 R(HU 2.11 2.11	DU145_cells, EB_cells, Caco2 PRSC_log, Lu_SC_H69, Lu_SC_H345 HS578T_cells, LNCaP_cells, OVCAR_cells  2.11 MB-MDA-453, RPWE_2, MCF7 EB_cells, Lu_AD_H23, Fibroblasts 2 MB-MDA-435s, EB_cells, LNCaP_cells EB_cells, CALU6_cells, DU145_cells Lu_AD_358, PC3_cells, PRSC_con
105400 119590 112434 122731 115348 128873 133742 102099 125840	H63994 AA447621 W44798 R63068 AA457549 AA281562 AA226768 T54301 U11870 H05787	Hs.221134 Hs.31257 Hs.55876 Hs.159793 Hs.88860 Hs.109463 Hs.75844 Hs.194778 Hs.12064	ESTs ESTs EST EST aa92b1.s1 Stratagene fetal retina 93722 gb:X5275_ma3 LEUKOSIALIN PRECURSOR ESTs ESTs; Weakly similar to predicted using ESTs interleukin 8 receptor; alpha ubliquifin specific protease 22	2.12 2.12 2.11 R(HU 2.11 2.11 2.11	DU145_cells, EB_cells, Caco2 PRSC_Jog, Lu_SC_H69, Lu_SC_H345 HS578T_cells, LNCaP_cells, OVCAR_cells  2.11 MB-MDA-453, RPWE_2, MCF7 EB_cells, Lu_AD_H23, Fibroblasts 2 MB-MDA-435s, EB_cells, LNCaP_cells EB_cells, CALU6_cells, DU145_cells
105400 119590 112434 122731 115348 128873 133742 102099 125840 105501	H63994 AA447621 W44798 R63068 AA457549 AA281562 AA226768 T54301 U11870 H05787 AA256604	Hs.221134 Hs.31257 Hs.55876 Hs.159793 Hs.88860 Hs.109463 Hs.75844 Hs.194778 Hs.12064 Hs.31930	ESTs ESTs EST EST ST EST EST Ass2b1.s1 Stratagene fetal refina 93722 gbc\S275_ma3 LEUKOSIALIN PRECURSOF ESTs ESTs; Weakly similar to predicted using ESTs Interleukin 8 receptor, alpha ubiquitin specific protease 22 ESTs	212 212 211 R(HU 211 211 211 211	DU145_cells, EB_cells, Caco2 PRSC_Jog, Lu_SC_H69, Lu_SC_H345 HS578T_cells, LNCaP_cells, OVCAR_cells  2.11 MB-MDA-453, RPWE_2, MCF7 EB_cells, Lu_AD_H23, Fibroblasts 2 MB-MDA-435s, EB_cells, LNCaP_cells EB_cells, CALU6_cells, LU145_cells Lu_AD_358, PC3_cells, PRSC_con EB_cells, LNCaP_cells, Caco2 Fibroblasts 2, HS578T_cells, MB-MDA-435s
106400 119590 112434 122731 115348 128873 133742 102099 125840 105501 111576	H63994 AA447621 W44798 R63068 AA457549 AA281562 AA226768 T54301 U11870 H05787 AA256604 R10334	Hs.221134 Hs.31257 Hs.55876 Hs.159793 Hs.88860 Hs.109463 Hs.75844 Hs.194778 Hs.12064 Hs.31930 Hs.15489	ESTs ESTs EST EST asa92b1.s1 Stratagene fetal retina 93722 gbtX5275_ma3 LEUKOSIALIN PRECURSOI ESTs ESTs; Weakly similar to predicted using ESTs Interleukin 8 receptor; alpha ubbquitin specific protease 22 ESTs ESTs	212 212 211 R(HU 211 211 211 211 211	DU145_cells, EB_cells, Caco2 PRSC_Jog, Lu_SC_H69, Lu_SC_H345 HS578T_cells, LNCaP_cells, OVCAR_cells  2.11 MB-MDA-453, RPWE_2, MCF7 EB_cells, Lu_AD_H23, Fibroblasts 2 MB-MDA-435s, EB_cells, LNCaP_cells EB_cells, CALU6_cells, LU145_cells Lu_AD_358, PC3_cells, PRSC_con EB_cells, LNCaP_cells, Caco2 Fibroblasts 2, HS578T_cells, MB-MDA-435s
106400 119590 112434 122731 115348 128873 133742 102099 125840 105501 111576 104275	H63994 AAA47621 W44798 R63068 AAA57549 AA281562 AA226768 T54301 U11870 H05787 AA256604 R10334 C02170	Hs.221134 Hs.31257 Hs.55876 Hs.159793 Hs.88860 Hs.109463 Hs.75844 Hs.194778 Hs.194778 Hs.31930 Hs.15489 Hs.39387	ESTs ESTs EST EST EST EST asa92b1.s1 Stratagene fetal retina 93722 gb:XS275_ma3 LEUKOSIALIN PRECURSOI ESTs ESTs; Weakly similar to predicted using ESTs Interleukin 8 receptor; alpha ubiquitin specific protease 22 ESTs ESTs ESTs ESTs; Weakly similar to weak similarity	212 212 211 R(HU 211 211 211 211 211 211	DU145_cells, EB_cells, Caco2 PRSC_Jog, Lu_SC_H59, Lu_SC_H345 HSS78T_cells, LNCaP_cells, OVCAR_cells  2.11 MB-MDA-453, RPWE_2, MCF7 EB_cells, Lu_AD_H23, Fibroblasts 2 MB-MDA-435s, EB_cells, LNCaP_cells EB_cells, CALU6_cells, DU145_cells Lu_AD_35s, PC3_cells, PRSC_con EB_cells, LNCaP_cells, Caco2
106400 119590 112434 122731 115348 128873 133742 102099 125840 105501 111576	H63994 AAA47621 W44798 R63068 AAA57549 AA281562 AA226768 T54301 U11870 H05787 AA256604 R10334 C02170	Hs.221134 Hs.31257 Hs.55876 Hs.159793 Hs.88860 Hs.109463 Hs.75844 Hs.194778 Hs.194778 Hs.31930 Hs.15489 Hs.39387	ESTs ESTs EST EST asa92b1.s1 Stratagene fetal retina 93722 gbtX5275_ma3 LEUKOSIALIN PRECURSOI ESTs ESTs; Weakly similar to predicted using ESTs Interleukin 8 receptor; alpha ubbquitin specific protease 22 ESTs ESTs	212 212 211 R(H) 211 211 211 211 211 211 211 21	DU145_cells, EB_cells, Caco2 PRSC_Jog, Lu_SC_H69, Lu_SC_H345 HSS78T_cells, LNCaP_cells, OVCAR_cells  2.11 MB-MDA-453, RPWE_2, MCF7 EB_cells, Lu_AD_H23, Fibroblasts 2 MB-MDA-435s, EB_cells, LNCaP_cells EB_cells, CALU6_cells, LU145_cells Lu_AD_358, PC3_cells, PRSC_con EB_cells, LNCaP_cells, Caco2 Fibroblasts 2, HSS78T_cells, MB-MDA-435s Lu_SC_H69, PRSC_Jog, Lu_SC_H345

122725	AA457407	Hs.152204	transmembrane protease; serine 2	2.1	Lu_SC_H69, Lu_LC_H460, Lu_SC_H345
120987	AA398233	Hs.111894	KIAA0108 gene product	2.1	Fibroblasts 2, PRSC_con, MCF7
105932	AA403305	Hs.12185	ESTs; Wealty similar to myosin phosphata	2.1	LNCaP_cells, MCF7, OVCAR_cells
	N64706	Hs.137282		2.1	Lu SC H345, HT29 cells, HMEC
	Z86000		Human DNA seq from PAC 151B14 on chron		
			receptor subtype 3 (SSTR3), tRNA, ESTs,	2.1	CALUB cells, A549 cells, Lu SC H345
130303	L40392	Hs.180789	H sapiens (clone S164) mRNA; 3' end of c	2.1	PC3_cells, DU145_cells, LNCaP_cells
		Hs.139446		21	HT29_cells, BT474_cells, MB231_cells
			ESTs; Weakly similar to misato [D.melano	2.1	EB_cells, Lu_SC_H345, LNCaP_cells
	R69088	Hs.28728		2.1	HT29_cells, BT474_cells, MB231_cells
	F10720	Hs.180804		2.1	HS578T_cells, HT29_cells, HT29_cells
	H40359	Hs.177256		2.09	MCF7, A549 cells, MB-MDA-435s
	H17490	Hs.7905		2.09	EB_cells, Fibroblasts 2, HS578T_cells
			ESTs; Highly similar to sorting nextin 9	2.09	
	AF006082		ARP2 (actin-related protein 2; yeast) ho		EB_cells, HS578T_cells, A549_cells
	AA398343		ESTS	2.09	Lu_SC_H345, PC3_cells, LNCaP_cells
	W93299	Hs.59363	ESTs; Wealty similar to cytokeratin 20 [	2.09	HMEC (total RNA), HS578T_cells, HS578T_cells
	AA491208		ESTS	2.09	EB_cells, Lu_AD_H23, Lu_SC_H69
	AA243768		ESTs; Highly similar to match to ESTs Z4	2.09	LNCaP_cells, Lu_AD_H23, MB-MDA-453
	D80354	Hs.256321	the state of the s	2.09	LNCaP_cells, DU145_cells, RPWE_2
			ESTs; Weakly similar to IIII ALU SUBFAMI	2.09	MB231_cells, HT29_cells, HMEC
	U30999	Hs.10247	activated leucocyte cell adhesion molecu	2.09	PC3_cells, HS578T_cells, DU145_cells
	T96077	Hs.17738	EST	2.09	Lu_AD_H23, Lu_AD_H23, Lu_SQ_H520
	L19779	Hs.795	H2A histone family; member O	2.09	LNCaP_cells, MCF7, OVCAR_cells
	R49025	Hs.22996		2.09	Lu_AD_H23, Lu_AD_358, Lu_SC_H69
		Hs.87968		2.08	BT474_cells, MB231_cells, HT29_cells
	F04432		ESTs	2.08	EB_cells, DU145_cells, PC3_cells
109592	F02475	Hs.26370	ESTs	2.08	Lu_AD_H23, Lu_SQ_H520, Lu_LC_H460
133740	U68142	Hs.170160	RAB2; member RAS oncogene family-like	2.08	LNCaP_cells, MB-MDA-453, EB_cells
126716	AA031700	Hs.251962	ESTs	2.08	HS578T_cells, Fibroblasts 2, Lu_SC_H69
124055	F10904	Hs.100516	H sapiens clone 23605 mRNA seq	2.08	Lu_SC_H345, OVCAR_ceils, DU145_ceils
113283	T66813	Hs.12947	EST	2.08	EB_cells, Lu_SC_H69, Lu_AD_H23
120097	W95068	Hs.59621	ESTs	2.08	HS578T_cells, A549_cells, CALU6_cells
102066	U08471	Hs.352	folate receptor 3 (garrima)	2.08	EB_cells, Lu_AD_H23, Lu_AD_358
108712	AA121993		zm24d11.s1 Stratagene pancreas (#93728)		
			similar to gb:Y433 GLUTATHIONE PEROXID	AS	2.08 Lu_SQ_H520, HT29_cells, BT474_cells
134453	X70683	Hs.83484	SRY (sex determining region Y)-box 4	2.08	EB_cells, Lu_SC_H345, Lu_SC_H69
		Hs.87363		2.08	HT29_cells, 293T_cells, 293T_cells
		Hs.16930		2.08	DU145_cells, MB-MDA-435s, HS578T_cells
	T96148	Hs.17762		2.08	EB_cells, Lu_SQ_H520, Fibroblasts 2
		Hs.104223		2.08	293T_cells, CALU6_cells, A549_cells
			double-stranded RNA-binding zinc finger	2.08	293T_cells, PC3_cells, OVCAR_cells
		Hs.146090		2.08	Lu_SC_H69, Lu_SC_H345, RPWE_2
	N74210	Hs.50454		2.08	Lu AD H23, Lu SC H69, Lu SC H345
	R60920		H sapiens clone 24510 mRNA seq	2.08	EB_cells, Lu_AD_H23, Lu_SC_H69
		Hs.38194		2.08	DU145_cells, EB_cells, HS578T_cells
		Hs.65302		2.08	HT29_cells, BT474_cells, Lu_AD_H23
	Z40583	Hs.101259		2.08	HIMEC, HIMEC (total RNA), EB_cells
		Hs.15396		2.08	Caco2, HT29_cells, LNCaP_cells
	T95280		trinucleotide repeat containing 1	2.08	EB_cells, Lu_AD_H23, Lu_SC_H69
		Hs.98791		2.08	Lu SC H345, Lu_AD_H23, Lu_AD_358
		Hs.229675		2.08	HS578T_cells, 293T_cells, OVCAR_cells
	H71420		ys8c12.s1 Soares fetal liver spleen 1NFL	2.00	Monta (Team) and Team) at an Comm
110500	117 1123		3 similar to contains Alu repetitive e	2.08	Lu_AD_H23, EB_cells, PRSC_con
106703	AA463979	Ha 24264	KIAA0782 protein	2.08	EB_cells, Caco2, PRSC_con
		Hs.98534		2.07	293T_cells, Lu_SC_H345, CALU6_cells
	T23992		ESTs; Moderately similar to RAS-RELATED	2.07	HS578T_cells, PRSC_con, OVCAR_cells
	Z19574	Hs.2785	keratin 17	2.07	RPWE_2, HMEC (total RNA), HMEC
	H57317	Hs.193433		2.07	Fibroblasts 2, OVCAR_cells, 293T_cells
	AA045083		gamma-glutamyl carboxylase	2.07	Fibroblasts 2, MB-MDA-453, PRSC_con
	AA479961	Hs.42913	ESTs; Highly similar to ubiquitin-conjug	2.07	EB_cells, LNCaP_cells, LNCaP_cells
		Hs.105308		2.07	LU_AD_H23, Lu_SC_H69, Lu_SC_H345
	AA452696	16.10000	zx39b05.r1 Soares_total_fetus_Nb2HF8_9w	2.01	D_D_122, 22_00_100, 22_00_1040
121310	741102000		to contains Alu repetitive element cont	2.07	HS578T_cells, LNCaP_cells, EB_cells
44046Å	H53013	Hs.221901		2.07	Fibroblasts 2, Lu_SQ_H520, Lu_SQ_H520
				2.07	Linimans S' mod now, mod nom
192121	X07619	112,103010	cytochrome P450; subfamily IID (debrisoq	2.07	LILAD HOS THE SC HED THE AD DED
404007	1 20040	U- 75000	polypeptide 7a (pseudogene)	2.07	Lij AD_H23, Lij SC_H69, Lij AD_358 Lij SC_H345, OVCAR_cells, Cacc2
	L36818	Hs.75339	inositol polyphosphate phosphatase-like	2.07	
		Hs.189937		2.07	LU_SC_H69, LU_AD_H23, LU_SC_H345
	H60192		ESTs; Wealthy similar to human homolog of	2.07	DU145_cells, Lu_LC_H460, Lu_AD_358
	N30131	Hs.93738	DKFZP434M098 protein	2.07	EB_cells, Lu_SC_H69, 293T_cells
	Z39710	Hs.25341		2.07	DU145_cells, BT474_cells, Lu_SC_H69
		Hs.72488		2.07	LU_SC_H69, LU_SC_H345, PC3_cells
	R78212	Hs.163705		2.07	MB-MDA-435s, LILSQ_H520, MB-MDA-453
	AA194940		ESTs; Weakly similar to line-1 protein O	2.07	HS578T_cells, 293T_cells, OVCAR_cells
	AA401144		ESTs	2.07	EB_cells, 293T_cells, PRSC_con
116290	AA488691	Hs.57969	phenylatanine-IRNA synthetase	2.06	Lu_AD_H23, Lu_SC_H345, PRSC_log

	AA449828			2.06	DU145_cells, HS578T_cells, 293T_cells
	2 R99199	Hs.17306	transducin-like enhancer of split 2; horn	2.06	MB-MDA-435s, 293T_cells, 293T_cells
11646	AA521650	Hs.41045	ESTs; Weakly similar to KIAA0734 protein	2.06	MB231_cells, HT29_cells, Lu_AD_358
12315	AA488414	Hs.76127	hect (homologous to the E6-AP (UBE3A) ca		
12675	2 Al073373	LL- 402077	domain (RLD) 1	2.06	DU145_cells, CALU6_cells, PC3_cells
	N80749			2.06	LNCaP_cells, EB_cells, DU145_cells
	R77869	Hs.28506	ESTs; Wealthy similar to predicted using	2.06	CALU6_cells, PRSC_log, OVCAR_cells
	AA252028			2.06	EB_cells, BT474_cells, Lu_AD_H23
	T67231		succinate dehydrogenase complex; subunit	2.06 2.06	LU_SQ_H520, Fibroblasts 2, EB_cells
	L35545	Hs.82353	endothelial cell protein C/activated pro	2.06	Caco2, LNCaP_cells, EB_cells EB_cells, RPWE_2, DU145_cells
	AA281951	Hs.5518	H sapiens mRNA; cDNA DKFZp566J2146 (f		2.06 OVCAR_cells, LNCaP_cells, DU145_cells
124380	N26536	Hs.84999	ATPase: Cu++ transporting: beta polynent	2.06	Caco2, Caco2, 293T_cells
103967	AA303711	Hs.144700	ephrin-B1	2.06	HT29_cells, HMEC (total RNA), HMEC
	T92935	Hs.119908	ESTs; Highly similar to nucleolar protei	2.06	HMEC, EB_cells, HMEC (total RNA)
	R66080	Hs.191268	H saplens mRNA; cDNA DKFZp434N174 (fr	om	2.06 LNCaP_cells, DU145_cells, OVCAR_cells
	M93405	Hs.170008	methylmalonate-semialdehyde dehydrogena	s 2.05	LNCaP_cells, MB-MDA-453, EB_cells
	T24024	Hs.7387	DKFZP564B116 protein	2.05	EB_cells, A549_cells, A549_cells
	R72632	Hs.29282		2.05	MCF7, HS578T_cells, PRSC_con
	AA583825 M57763			2.05	MB231_cells, HT29_cells, Fibroblasts 2
	W51835	Hs.231082	ADP-ribosylation factor 6	2.05	DU145_cells, LNCaP_cells, PC3_cells
	AA425943		acyl-Coenzyme A dehydrogenase; very long	2.05	EB_cells, Fibroblasts 2, Lu_AD_H23
	AA236796		folistatin	2.05 2.05	OVCAR_cells, PC3_cells, EB_cells
	AA227956			2.05	HMEC (total RNA), PC3_cells, HMEC HMEC, RPWE_2, HMEC (total RNA)
134331	AA452020	Hs.234156	ESTs; Weakly similar to CGI-128 protein	2.05	EB_cells, CALU6_cells, A549_cells
121634	AA417012	Hs.28921	ESTS	2.05	HS578T_cells, EB_cells, Lu_SC_H345
131394	R72637	Hs.26343	ESTs	2.05	EB cells, Lu SC H69, Lu AD H23
	R08260	Hs.20131	ESTs	2.05	Lu_AD_H23, Lu_SC_H69, BT474_cells
	T79840	Hs.111798	ESTs	2.05	HT29_cells, Lu_AD_H23, Lu_SC_H345
120433	AA237077	Hs.180777	H sapiens mRNA; cDNA DKFZp564M0264 (f	rom	2.05 DU145_cells, CALU6_cells, PC3_cells
129498	AA449789	Hs.75511	connective tissue growth factor	2.05	HS578T_cells, PRSC_log, PRSC_con
	AA740921		heat shock 10kD protein 1 (chaperonin 10	2.05	DU145_cells, LNCaP_cells, OVCAR_cells
1092/5	AA190207	MS.ZUJUJ	ESTs; Moderately similar to IIII ALU SUB	2.05	EB_cells, MB-MDA-453, Fibroblasts 2
135415	X60655	Hs.99967	ESTs; Weakly similar to contains similar	2.04	Lil_AD_358, Lil_SQ_H520, Lil_LC_H460
		Hs 238296	even-skipped homeo box 1 (homolog of Dro DKFZP434A033 protein	2.04 2.04	Lu_AD_H23, RPWE_2, Lu_SQ_H520
101875	M97287	Hs.74592	special AT-rich seq binding protein 1 (b	2.04	293T_ceits, HS578T_ceits, LNCaP_ceits
	M22490	Hs.68879	bone morphogenetic protein 4	2.04	EB_cells, Lu_SC_H69, 293T_cells PRSC_con, HT29_cells, MB231_cells
129177	T95005	Hs.209587		2.04	293T_cells, MB-MDA-435s, Lu_SC_H69
	W88946	Hs.18508	putative glycine-N-acyttransferase	2.04	HT29_cells, Fibroblasts 2, MB-MDA-435s
	AA262417		ESTs	2.04	DU145_cells, OVCAR_cells, PC3_cells
	N63706	Hs.104573		2.04	Cacco2, 293T_cells, DU145_cells
	AA482069			2.04	Lu_AD_358, HT29_cells, HT29_cells
	AA232857 AA610116		ESTS	2.04	DU145_cells, Lu_AD_H23, LNCaP_cells
	AA935809		tetraspan NET-6 protein	2.04	BT474_cells, Caco2, LNCaP_cells
		Hs.235712		2.04	BT474_cells, MB-MDA-435s, MB-MDA-453
			ESTs; Weakly similar to hypothetical pro	2.04 2.04	Caco2, OVCAR_cells, MCF7
	AA460270	Hs.27695	midline 1 (Opitz/BBB syndrome)	2.04	EB_cells, Liu_SC_H345, PRSC_con A549_cells, 293T_cells, Caco2
126256	Z21124		HSAAADNVE TEST1, Human adult Testis tiss		Fibroblasts 2, Fibroblasts 2, MCF7
129697	R00841	Hs.172069	DKFZP434C212 protein	2.04	HT29_ceils, Lu_SQ_H520, BT474_ceils
126730	T19477		A1426R Heart H sapiens cDNA clone A1426.	2.04	EB_cells, Lu_AD_H23, Lu_SC_H69
	W86466	Hs.132756	ESTs; Weakly similar to KIAA0591 protein	2.04	EB_cells, Lu_AD_H23, Lu_LC_H460
			hemoglobin; gamma G	2.04	MB231_cells, Lu_AD_358, HT29_cells
	W38206	11	Accession not listed in Genbank	2.04	BT474_ceils, HT29_ceils, Lii_AD_H23
			clock (mouse) homolog	2.04	PC3_cells, OVCAR_cells, PRSC_log
12//00	AI337031	MS.180193	ESIS ·	2.04	293T_cells, MB-MDA-435s, A549_cells
110911	MA 130733		ESTs; Weakly similar to IIII ALU SUBFAMI	2.04	EB_cells, Lu_AD_358, Lu_LC_H460
	AA442742		ESTs ESTs; Weakly similar to IIII ALU SUBFAMI	2.03	Lu_AD_H23, RPWE_2, Lu_LC_H460
100253	D38024	Hs 247951	Humn factoscapulohumerel muscular dystro	2.03 2.03	EB_cells, Fibroblasts 2, Lu_SC_H345
120431	AA236884	Hs.247323	H sapiens mRNA for G4 protein (G4 gene;	2.03	Lu_AD_H23, Lu_AD_358, Lu_SQ_H520 Lu_SC_H69, EB_cells, Lu_SC_H345
122449	AA447638	Hs.104977	ESTs	2.03	LU_SC_H345, LU_SC_H345, LU_SQ_H520
100961			Accession not listed in Genbank	2.03	HT29 cells, BT474_cells, HMEC
130908	W86389	Hs.21122	ESTs; Moderately similar to KIAA0438 IH.	2.03	293T_cells, Lu_SC_H345, OVCAR_cells
102643	U67849		Human beta-galactoside alpha 2.6-slalvitr	2.03	HT29 cells, 293T_cells, Lu SC H345
	AA398510	Hs.133148	ESTs	2.03	EB_cells, Lu_SC_H345, Lu_SC_H69
	AA190906			2.03	Lu_SQ_H520, Lu_SC_H345, Lu_SC_H69
102598			eukaryolic translation initiation factor	2.03	EB_cells, DU145_cells, MCF7
124470		Hs.101392		2.03	HT29_cells, Fibroblasts 2, HMEC (total RNA)
104501	AA076672			2.03	Caco2, LNCaP_cells, EB_cells
124164	ΔΔ242952 1	Hs.7535 Hs 237856		2.03	CALU6_cells, CALU6_cells, A549_cells
129683	WN534R	He 152100		2.03	MB231_cells, BT474_cells, Fibroblasts 2
123000	A A 22 E 22 2	Ho 498574		2.03 2.03	HT29_cels, MB-MDA-435s, Lu_AD_H23 MB-MDA-453, Lu_SQ_H520, Lu_AD_358
105350	MMZ.TTI			4113	**************************************

12979	AA447772	Hs.14520	eukaryotic translation initiation factor	2.03	EB_ceils, Lu_AD_358, Lu_AD_H23
11566	AA405974	Hs.54673	tumor necrosis factor (ligand) superfami	2.03	Lu AD 358, HT29 cells, HT29 cells
	R41672	He 91471	ATPase type IV; phospholipid transportin	2.03	HT29 cells, MB231 cells, BT474 cells
	L38151	Un 47469E	phosphalidylinositol 4-kinase; catalytic	2.03	293T cells, DU145 cells, LNCaP cells
				2.03	Lu SC_H345, MB-MDA-453, MB-MDA-4359
	N69440	Hs.38132			
	A1034361		lung type-I cell membrane-associated gly	2.03	Lu_SC_H345, LNCaP_cells, DU145_cells
12137(	AA405699	Hs.166232	ESTs; Moderately similar to SODIUM-AND		
			TRANSPORTER 2 [H.saplens]	2.03	LNCaP_cells, HT29_cells, RPWE_2
105289	AA233178	He 103000	KIAA0831 protein	2.02	PC3 cells, Lu AD H23, MB231 cells
10096	J02621		high-mobility group (nonhistone chromoso	2.02	MCF7, DU145_cells, OVCAR_cells
				2.02	MB-MDA-435s, Fibroblasts 2, EB_cells
	N38913	Hs.221575			
	Al306331	Hs.133296		2.02	HT29_cells, MB-MDA-435s, Lu_SC_H345
	X91809		G alpha interacting protein	2.02	LILAD_H23, RPWE_2, MCF7
108033	AA040923	Hs.92200	KIAA0480 gene product	2.02	MCF7, Fibrobiasts 2, DU145_cells
	AA001045			2.02	DU145_cells, PC3_cells, OVCAR_cells
	AA233159			2.02	HT29_cells, MB-MDA-435s, Lu_SC_H69
	R00144			2.02	HT29 cells, Fibroblasts 2, HMEC
		Hs.189771			
	N32495	Hs.151560		2.02	HT29_cells, HMEC (total RNA), Fibroblasts 2
120506	AA257955	Hs.173705	ESTs; Wealthy similar to lift ALU CLASS C	2.02	MCF7, Fibroblasts 2, LNCaP_cells
130850	N39306	Hs.20237	DKFZP566C134 protein	2.02	EB_cells, Lu_AD_H23, Lu_LC_H460
			ESTs; Moderately similar to IIII ALU SUB	2.02	CALU6_cells, 293T_cells, PRSC_log
	N71704	Hs.4310	eukaryotic translation initiation factor	2.02	293T_cells, PC3_cells, EB_cells
		Hs.91785		2.02	CALU6_cells, MB-MDA-453, PC3_cells
	R42362				
	N92915		brefeldin A-inhibited guanine nucleotide	2.02	EB_cells, OVCAR_cells, LNCaP_cells
125013	T67261	Hs.154431	ESTs; Wealty similar to neuronal thread	2.02	Lu_SC_H345, Lu_SC_H69, PRSC_con
129762	AA460273	Hs.12372	KIAA0517 protein	2.02	EB_cells, MB-MDA-435s, OVCAR_cells
120704	AA291970	Hs.107054	KIAA0821 protein	2.01	Lu_SC_H69, EB_cells, MB-MDA-453
			Human DNA seg from done 126A5 on chrom		<del>-</del> - · -
	75 200000		genes (one with DnaJ domains); the gene	•	=
				2.04	Lu_AD_H23, Lu_LC_H460, Lu_SQ_H520
40000			family member HKR3. Contains ESTs; STSs;		
	AA017723		small inducible cytokine A5 (RANTES)	2.01	LNCaP_cells, DU145_cells, MB231_cells
103478	Y07755	Hs.38991	S100 calcium-binding protein A2	2.01	HMEC (total RNA), HMEC, RPWE_2
133544	T33873	Hs.74624	protein tyrosine phosphatase; receptor t	2.01	Lu_SC_H345, BT474_cells, HT29_cells
112746	R93237		yq11e10.s1 Soares fetal liver spieen 1NF		
			IMAGE:196650 3', mRNA seq.	2.01	PC3_cells, LNCaP_cells, OVCAR_cells
440545	N67504	Hs.40061	ESTs	2.01	Lu_SC_H345, Lu_SC_H69, PRSC_con
	AA598484	HS.2304/0		_2.01	EB_cells, Lu_AD_H23, Lu_SC_H345
	AA769520		ESTs; Weakly similar to REGULATOR OF MI	Ī	2.01 HS578T_cells, CALU6_cells,
LIL_SQ					
111843	R36969	Hs.18888	ESTs	2.01	Lu_AD_H23, Lu_AD_358, Lu_SQ_H520
100221	D28383		Human mRNA for ATP synthase B chain, 5'U	2.01	EB_cells, Lu_AD_H23, LNCaP_cells
129966	AA452237	Hs.194443	ESTs; Wealty similar to BC37295_2 JH.sap	2.01	Lu SC_H345, Lu_SC_H69, DU145_cells
	AA478968			2.01	EB cells, Lu_AD_H23, Lu_LC_H460
	AA085374	INCOM	zn13d5.s1 Stratagene hNT neuron (#937233	201	D_000, 60_D_00, 00_D_1400
114030	MAU0033/4			ADEDT!	OM ED colle CALLIE colle OVCAD colle
			gb:L8441 CYTOCHROME C OXIDASE POLY		2.01 EB_cells, CALU6_cells, OVCAR_cells
	H21585		ESTs; Moderately similar to ATP binding	2.01	EB_cells, HS578T_cells, PC3_cells
	AA233245			2.01	EB_cells, DU145_cells, 293T_cells
106471	AA450118	Hs.25722	ESTs; Weakly similar to ZINC FINGER PROT	2.01	OVCAR_cells, LNCaP_cells, EB_cells
			ESTS	2	Lu_SC_H345, Fibroblasts 2, Lu_AD_H23
		Hs.7966			
	T33128	Hs.7966	wwGGnftR of Morton Fotal Cochlea Hisanian		
	T33128 N22289		yw36g08.s1 Morton Fetal Cochlea H sapien	2	MB-MDA-453, OVCAR_ceils, CALU6_ceils
134199	T33128 N22289 U47635	Hs.79877	myotubularin related protein 6	2 2	MB-MDA-453, OVCAR_cells, CALU6_cells EB_cells, PC3_cells, LNCaP_cells
134199 128758	T33128 N22289 U47635 AA129545	Hs.79877 Hs.181165	myotubularin related protein 6 eukaryotic translation elongation factor	2 2 2	MB-MDA-453, OVCAR_cells, CALU6_cells EB_cells, PC3_cells, LNCaP_cells Lu_SC_H69, EB_cells, Lu_SC_H345
134199 128758 112005	T33128 N22289 U47635 AA129545 R42569	Hs.79877 Hs.181165 Hs.22444	myotubularin related protein 6 eukaryotic translation elongation factor ESTs	2 2 2 2	MB-MDA-453, OVCAR_cells, CALU6_cells EB_cells, PC3_cells, LNCaP_cells Lu_SC_H69, EB_cells, Lu_SC_H345 Lu_AD_H23, PRSC_log, Lu_AD_358
134199 128758 112005	T33128 N22289 U47635 AA129545 R42569	Hs.79877 Hs.181165 Hs.22444 Hs.149227	myotubularin related protein 6 eukaryotic translation elongation factor ESTs ESTs; Wealdy similar to PROLINE-RICH PRO	2 2 2 2	MB-MDA-453, OVCAR_cells, CALU6_cells EB_cells, PC3_cells, LNCaP_cells Lu_SC_H69, EB_cells, Lu_SC_H345 Lu_AD_H23, PRSC_log, Lu_AD_358 HT29_cells, RPWE_2, MB231_cells
134199 128758 112005 122521	T33128 N22289 U47635 AA129545 R42569	Hs.79877 Hs.181165 Hs.22444 Hs.149227	myotubularin related protein 6 eukaryotic translation elongation factor ESTs	2 2 2 2	MB-MDA-453, OVCAR cells, CALU6_cells EB_cells, PC3_cells, LNCaP_cells Lu_SC_H69, EB_cells, Lu_SC_H345 Lu_AD_H23, PRSC_log, Lu_AD_358 HT29_cells, RPWE_2, MB231_cells
134199 128758 112005 122521 130356	T33128 N22289 U47635 AA129545 R42569 AA449433 X84373	Hs.79877 Hs.181165 Hs.22444 Hs.149227 Hs.155017	myotubularin related protein 6 eukaryotic translation elongation factor ESTs ESTs; Wealdy similar to PROLINE-RICH PRO nuclear receptor interacting protein 1	2 2 2 2 2 2 2 2 2 2	MB-MDA-453, OVCAR_cells, CALU6_cells EB_cells, PC3_cells, LNCaP_cells Lu_SC_H69, EB_cells, Lu_SC_H345 Lu_AD_H23, PRSC_log, Lu_AD_358 HT29_cells, RPWE_2, MB231_cells DU145_cells, PC3_cells, MCF7
134199 128758 112005 122521 130356 114067	T33128 N22289 U47635 AA129545 R42569 AA449433 X84373 Z38153	Hs.79877 Hs.181165 Hs.22444 Hs.149227 Hs.155017 Hs.26921	myotubularin related protein 6 eukaryotic translation ekongation factor ESTs ESTs; Weakly similar to PROLINE-RICH PRO nuclear receptor interacting protein 1 ESTs	2 2 2 2 2 2 2 2 2 2 2	MB-MDA-453, OVCAR_cells, CALU6_cells EB_cells, PC3_cells, LNCaP_cells Lu_SC_H69, EB_cells, Lu_SC_H345 Lu_AD_H23, PRSC_log, Lu_AD_358 HT29_cells, RPWE_2, MB231_cells DU145_cells, PC3_cells, MCF7 293T_cells, MB-MDA-435s, HT29_cells
134199 128758 112005 122521 130356 114067	T33128 N22289 U47635 AA129545 R42569 AA449433 X84373	Hs.79877 Hs.181165 Hs.22444 Hs.149227 Hs.155017 Hs.26921	myotubularin related protein 6 eukaryotic translation ekongation factor ESTs ESTs; Weakly similar to PROLINE-RICH PRO nuclear receptor interacting protein 1 ESTs	2 2 2 2 2 2 2 2 2 2	MB-MDA-453, OVCAR_cells, CALU6_cells EB_cells, PC3_cells, LNCaP_cells Lu_SC_H69, EB_cells, Lu_SC_H345 Lu_AD_H23, PRSC_log, Lu_AD_358 HT29_cells, RPWE_2, MB231_cells DU145_cells, PC3_cells, MC77

## Table 3

Pkey: Unique Eos probeset identifier number
ExAccn: Exemplar Accession number, Genhank accession number
Unique Title: Unique gene title

Pkey	Ex Acen	ug_id	Complete_Title	Ratio BS/Met	Top 3 expressing cell lines
302347	AF039400	Hs.194659	chloride channel; calcium activated; fam	19.71	EB, NCI-H520, NCI-H23
316304	Al936587	Hs.221599	ESTs	14.49	PRSC_con, RPWE-2, OVCA-R
339196			CH22_FF113D11.GENSCAN.3-1	10.37	NCHH69, PRSC_con, NCHH345
336171			CH22_FGENES.708_3	9.45	NCHH69, NCHH460, NCHH23
338895			CH22_DJ32H0.GENSCAN.9-2	9.31	PC3, BT474, OVCA-R
333625			CH22_FGENES.223_2	8.98	NCHH69, PRSC_con, NCHH345
333730			CH22_FGENES.258_1	8.82	NCI-H69, BT474, MB-MDA-231
333643	AAZ909ZZ	HS.129//8	gastrointestinal peptide	8.22	BT474, CALU6, DU145
333423			CH22_FGENES.232_2	7.66	MCF7, NCHH69, LnCap
		Lin 18/15/17	CH22_FGENES.147_3 H saptens Chromosome 16 BAC clone CIT98	<i>_7.57</i>	HT29, MB-MDA-231, EB
333588	71000100	110.101007	CH22_FGENES.206_2		7.55 MB-MDA-231, HT29, MB-MDA-453
	AL137507		EST cluster (not in UniGene)	7.46 7.35	HT29, OVCA-R, BT474
	AI719930		EST singleton (not in UniGene) with exon	6.83	PRSC_con, PRSC_log, NCI-H345 PC3, DU145, DU145
339044			CH22_DA59H18.GENSCAN.27-5	6.46	NCH169, NCH1345, PRSC_log
314516	AA371513	Hs.231748		6.41	EB, OVCA-R, Caco2
327805			CH.05_hs glj5867968	6.28	NCI-H69, NCI-H345, PRSC_con
334239			CH22_FGENES.364_2	6.09	NCHH520, MB-MDA-435s, MB-MDA-453
332958			CH22_FGENES.48_15	6.04	NCI-H69, PRSC_con, PRSC_log
	W85772	Hs.173924		5.88	MB-MDA-231, OVCA-R, BT474
	AL037927	Hs.190675	ESTs; Moderately similar to IIII ALU SUB	5.84	OVCA-R, CALU6, EB
337170			CH22_FGENES.564-1	5.67	LnCap, CALU6, NCI-H69
337503			CH22_FGENES.803-1	5.66	NCI-H345, PRSC_con, RPWE-2
337562			CH22_C65E1.GENSCAN.1-2	5.53	HT29, MB-MDA-453, BT474
337219	Al679622	Un 22225	CH22_FGENES.614-3	5.45	NCHH69, NCHH345, PRSC_log
	AA713589	ПЗАЗСССЭ	Immunoglobulin alpha 1 EST chister (not in UniGene)	5.43	NCI-H69, NCI-H23, NCI-H345
336246	AA7 10003		CH22_FGENES.746_5	5.41	PC3, EB, LTCap
335009			CH22_FGENES.472_13	5.34 5.31	NCI-H69, NCI-H345, PRSC_log
339365			CH22_BA354112.GENSCAN.34-1	5.25	EB, EB, NCHH69
336088			CH22_FGENES.688_17	5.21	PRSC_con, NCI-H69, PRSC_log PRSC_con, Caco2, PRSC_log
334966			CH22_FGENES,465_36	5.16	DU145, BT474, MB-MDA-231
334666			CH22_FGENES.418_18	5.15	NCI-H69, NCI-H345, PRSC_log
316830	AW182106	Hs.127821		5.12	NCI-H345, PRSC_con, PRSC_log
339413			CH22_DJ579N16.GENSCAN.5-8	5.08	NCI-H69, NCI-H345, PRSC_log
337951			CH22_EM:AC005500.GENSCAN.94-1	5.01	NCI-H345, NCI-H69, PRSC_con
330153			CH_21_p2 gi]4325335	5	PRSC_con, PRSC_log, NCI-H69
333987			CH22_FGENES.310_11	4.96	MB-MDA-231, MB-MDA-453, MB-MDA-453
334304			CH22_FGENES.373_7	4.96	OVCA-R, CALU6, NCH+23
338990 333152			CH22_DA59H18.GENSCAN.6-6	4.95	PRSC_log, PRSC_con, NCI-H69
327049	•		CH22_FGENES.89_1 CH.21_hs gli6531965	4.89	MB-MDA-435s, OVCA-R, A549
337225			0.00	4.87 4.83	PRSC_con, NCHH345, PRSC_log
333496		•	AL 100 AL	4.81	DU145, CALU6, EB NCI-H69, NCI-H345, PRSC_con
334451			21122 222	4.79	RPWE-2, PRSC_con, NCI-H69
333594			At the many was are a	4.78	OVCA-R, PC3, HT29
333635			ALMA MAMANA AAA	4.78	NCI-H69, PRSC_log, PRSC_con
336796				4.73	NCI-H69, NCI-H345, PRSC log
333313			CH22_FGENES.138_5	4.72	NCHH69, NCHH345, PRSC_log
336833				4.7	NCI-H345, NCI-H69, PRSC_con
336090				4.7	NCHH69, PRSC_con, PRSC_log
336645					HT29, OVCA-R, DU145
334565				4.62	NCHH345, PRSC_log, RPWE-2
333242					NCI-H345, PRSC_log, PRSC_con
326304 337445					OVCA-R, EB, DU145
337443			Olion I beneather		RPWE-2, NCHH69, PRSC_log
327990					NCHH69, PRSC_log, NCHH345
325038	H3R304				PRSC_con, PRSC_log, RPWE-2
		Hs.136370	-c		PRSC_con, MB-MDA-231, HT29 HT29, MB-MDA-231, NCI-358
328859			011 07 1 2000 1		OVCA-R, BT474, A549
334476			ALINA COCINE ALI		OVCA-R, PC3, EB
336092			ALINA POPUMA ALL		PRSC_con, Caxo2, PRSC_log
333965			ALMA FAR		NCHH69, NCHH345, PRSC_log
•			-		

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336402			CH22_FGENES.823_17	4.34	RPWE-2, HT29, OVCA-R
337947			CH22_EM:AC005500.GENSCAN.90-5	4.33	OVCA-R, DU145, PC3
337504			CH22_FGENES.803-2	4.33	NCI-H345, PRSC_con, PRSC_log
336813			CH22_FGENES.213-6	4.33	DU145, HT29, OVCA-R
338069			CH22_EM:AC005500.GENSCAN.166-14	4.33	NCHH69, PRSC_con, NCHH345
	N28625	Hs.74034	caveolin 1; caveolae protein; 22kD	4.31	PC3, A549, BT474
333631			CH22_FGENES.227_2	4.3	OVCA-R, PRSC_con, LnCap
	M14268		EST	4.27	PRSC_con, PRSC_log, RPWE-2
336049			CH22_FGENES.681_2	4.26	HT29, DU145, DU145
335667			CH22_FGENES.590_18	4.25	NCI-H520, Caco2, MB-MDA-453
	Y13323	Hs.145296	disintegrin protease	4.25	MB-MDA-231, DU145, BT474
	AA430373		EST singleton (not in UniGene) with exon	4.22	NCI-358, NCI-H460, NCI-H23
327273	•		CH.01_hs gij5867466	4.22	NCH469, NCH4345, PRSC_con
334540				4.17	NCHH69, NCHH345, PRSC_Jog
334719			CH22_FGENES.421_30	4.17	NCI-H69, NCI-H345, RPWE-2
327827			CH.05_hs gi[5867968	4.17	OVCA-R, NCHH69, CALU6
333599			CH22_FGENES.212_2	4.17	PRSC_log, NCI-H69, PRSC_con
329638			CH.12_p2 gB3779004	4.16	DU145, MB-MDA-231, HT29
	Al281651		EST singleton (not in UniGene) with exon	4.16 .	BT474, HT29, CALU8
336836			CH22_FGENES.247-11	4.15	PRSC_con, NCI-H345, NCI-H69
323187	AL121180	Hs.240038		4.14	NCH+345, MB-MDA-435s, RPWE-2
336397			CH22_FGENES.823_12	4.13	NCH+345, PRSC_con, RPWE-2
	AA736429		EST cluster (not in UniGene)	4.13	NCI-H69, PRSC_con, NCI-H345
300199	AJ304386	Hs.150836	ESTs	4.11	NCI-H345, PRSC_con, PRSC_log
335832			CH22_FGENES.620_6	4.08	NCH169, NCH1345, PRSC_log
312778	A1631655	Hs.197919	ESTs	4.07	NCI-358, NCI-H23, PRSC_con
323164	AA765301	Hs.151858	ESTs	4.06	NCHH23, A549, HT29
315871	AW135312	Hs.117237	ESTs	4.05	MB-MDA-231, EB, MCF7
337452			CH22_FGENES.775-1	4.02	PRSC_con, PRSC_log, NCI-H345
335265			CH22_FGENES.521_1	4.01	NCI-H69, MCF7, RPWE-2
335200			CH22_FGENES.508_9	4.01	NCI-H69, PRSC_Jog, PRSC_con
336917			CH22_FGENES.346-4	3.99	PRSC_con, NCI-H345, PRSC_log
336584			CH22_FGENES.847_1	3.98	PRSC_log, PRSC_con, RPWE-2
333382			CH22_FGENES.143_21	3.97	EB, A549, HT29
329436		•	· CH.Y_hs gij5868883	3.97	BT474, PC3, HT29
336929			CH22_FGENES.349-3	3.94	NCI-H69, NCI-H345, PRSC_log
337238			CH22_FGENES.641-3	3.92	NCI-H69, NCI-H345, PRSC_log
333875			CH22_FGENES.291_11	3.92	PRSC_con, RPWE-2, PRSC_log
337069			CH22_FGENES.448-2	3.9	NCHH69, LnCap, RPWE-2
332491	M24470	Hs.1435	guanosine monophosphate reductase	3.86	OVCA-R, MB-MDA-435s, CALU6
304623	AA521331		EST singleton (not in UniGene) with exon	3.86	OVCA-R, DU145, PC3
335348			CH22_FGENES.537_4	3.85	HT29, MB-MDA-231, PC3
334568			CH22_FGENES.405_9	3.85	NCI-H69, NCI-H345, PRSC_log
336924			CH22_FGENES.347-9	3.84	NCI-H345, PRSC_log, RPWE-2
301654	H81795		EST	3.84	NCI-H520, LnCap, NCI-358
334677			CH22_FGENES.418_30	3.83	PRSC_con, NCI-H345, NCI-H69
326688			CH.20_hs glip5867582	3.83	NCHH345, PRSC_con, PRSC_log
327790			CH.05_hs glij5867977	3.8	PRSC_con, PRSC_log, NCI-H345
334591			CH22_FGENES.408_1	3.8	NCI-H69, PRSC_Jog, NCI-H345
337974			CH22_EM:AC005500.GENSCAN,106-3	3.78	PRSC_log, PRSC_con, NCI-H345
311274	AW293128	Hs.197101	ESTs	3.78	NCI-H345, PRSC_con, RPWE-2
326668	•		CH.20_hs gi[6552455	3.78	NCI-H345, NCI-H69, PRSC_Jog
304195	N35382		EST singleton (not in UniGene) with exon	3.77	NCHH69, RPWE-2, PRSC_con
336294			CH22_FGENES.786_4	3.77	PRSC_con, PRSC_log, NCI-H69
311613	AL046311	Hs.252443	ESTs; Wealty similar to IIII ALU SUBFAMI	3.76	HT29, BT474, MB-MDA-231
338123			CH22_EM:AC005500.GENSCAN,195-5	3.75	MB-MDA-231, HT29, BT474
318230	AA558125		EST cluster (not in UniGene)	3.74	RPWE-2, PRSC_con, NCI-H345
202085				0.17	
202202		Hs.156110	Immunoglobulin kappa variable 1D-8	3.73	MB-MDA-231, BT474, PRSC_con
336502		Hs.156110	Immunoglobulin kappa variable 1D-8 CH22_FGENES.833_8	_	
		Hs.156110		3.73	MB-MDA-231, BT474, PRSC_con
336502		Hs.156110	CH22_FGENES.833_8	3.73 3.72	MB-MDA-231, BT474, PRSC_con NCI-H345, RPWE-2, PRSC_con NCI-H59, NCI-H345, PRSC_con NCI-H59, OVCA-R, PC3
336502 334063		Hs.156110	CH22_FGENES.833_8 CH22_FGENES.327_17	3.73 3.72 3.71	MB-MDA-231, BT474, PRSC_con NCI-H345, RPWE-2, PRSC_con NCI-H69, NCI-H345, PRSC_con NCI-H69, OVCA-R, PC3 NCI-H69, NCI-H345, PRSC_con
336502 334063 333600		Hs.156110	CH22_FGENES.833_8 CH22_FGENES.327_17 CH22_FGENES.213_2	3.73 3.72 3.71 3.7	MB-MDA-231, BT474, PRSC_con NCI-H345, RPWE-2, PRSC_con NCI-H69, NCI-H345, PRSC_con NCI-H69, OVCA-R, PC3 NCI-H69, NCI-H345, PRSC_con NCI-H345, PRSC_con, PRSC_log
336502 334063 333600 339424		Hs.156110	CH22_FGENES.833_8 CH22_FGENES.327_17 CH22_FGENES.213_2 CH22_DJ579N18.GENSCAN.14-3	3.73 3.72 3.71 3.7 3.69	MB-MDA-231, BT474, PRSC_con NCI-H345, RPWE-2, PRSC_con NCI-H69, NCI-H345, PRSC_con NCI-H69, OVCA-R, PC3 NCI-H69, NCI-H345, PRSC_con
336502 334063 333600 339424 336862 334823 329940	AW514501		CH22_FGENES.833_8 CH22_FGENES.327_17 CH22_FGENES.213_2 CH22_DJ579N18.GENSCAN.14-3 CH22_FGENES.297-2 CH22_FGENES.437_5 CH.16_p2 gij6165199	3.73 3.72 3.71 3.7 3.69 3.67	MB-MDA-231, BT474, PRSC_con NCH-1345, RPWE-2, PRSC_con NCH-169, NCH-1345, PRSC_con NCH-169, OVCA-R, PC3 NCH-169, NCH-1345, PRSC_con NCH-1345, PRSC_con, PRSC_log RPWE-2, PRSC_log, PRSC_con CALLI6, EB, MCF7
336502 334063 333600 339424 336862 334823 329940		Hs.156110 Hs.231521	CH22_FGENES.833_8 CH22_FGENES.327_17 CH22_FGENES.213_2 CH22_DJ579N18.GENSCAN.14-3 CH22_FGENES.297-2 CH22_FGENES.437_5 CH.16_p2 gij6165199	3.73 3.72 3.71 3.7 3.69 3.67 3.67	MB-MDA-231, BT474, PRSC_con NCI-H345, RPWE-2, PRSC_con NCI-H69, NCI-H345, PRSC_con NCI-H69, OVCA-R, PC3 NCI-H69, NCI-H345, PRSC_con NCI-H345, PRSC_con, PRSC_log RPWE-2, PRSC_log, PRSC_con CALU6, EB, MCF7 PRSC_con, NCI-H69, RPWE-2
336502 334063 333600 339424 336862 334823 329940	AW514501		CH22_FGENES.833_8 CH22_FGENES.327_17 CH22_FGENES.213_2 CH22_DJ579N18.GENSCAN.14-3 CH22_FGENES.297-2 CH22_FGENES.437_5 CH.16_p2 gij6165199	3.73 3.72 3.71 3.7 3.69 3.67 3.67 3.66	MB-MDA-231, BT474, PRSC_con NCI-H345, RPWE-2, PRSC_con NCI-H69, NCI-H345, PRSC_con NCI-H69, NCI-H345, PRSC_con NCI-H345, PRSC_con, PRSC_bg RPWE-2, PRSC_log, PRSC_con CALLI6, EB, MCF7 PRSC_con, NCI-H69, RPWE-2 NCI-H69, NCI-H345, PRSC_con
336502 334063 333600 339424 336862 334823 329940 300275 328820	AW514501 Al632123	Hs.231521	CH22_FGENES.833_8 CH22_FGENES.327_17 CH22_FGENES.213_2 CH22_DJ579N18.GENSCAN.14-3 CH22_FGENES.297-2 CH22_FGENES.437_5 CH.16_p2 g  5165199 ESTs	3.73 3.72 3.71 3.7 3.69 3.67 3.67 3.66 3.66	MB-MDA-231, BT474, PRSC_con NCI-H345, RPWE-2, PRSC_con NCI-H69, NCI-H345, PRSC_con NCI-H69, OVCA-R, PC3 NCI-H69, NCI-H345, PRSC_con NCI-H345, PRSC_con, PRSC_log RPWE-2, PRSC_log, PRSC_con CALU6, EB, MCF7 PRSC_con, NCI-H69, RPWE-2
336502 334063 333600 339424 336862 334823 329940 300275 328820 332398 325791	AW514501 Al632123 AA446446	Hs.231521	CH22_FGENES.833_8 CH22_FGENES.327_17 CH22_FGENES.213_2 CH22_DJ579N18.GENSCAN.14-3 CH22_FGENES.297-2 CH22_FGENES.437_5 CH26_p2 gip165199 ESTs CH.16_p2 gip5868330	3.73 3.72 3.71 3.7 3.69 3.67 3.66 3.66 3.66	MB-MDA-231, BT474, PRSC_con NCI-H345, RPWE-2, PRSC_con NCI-H69, NCH-H345, PRSC_con NCI-H69, OVCA-R, PC3 NCI-H69, NCI-H345, PRSC_con NCI-H345, PRSC_con, PRSC_log RPWE-2, PRSC_log, PRSC_con CALLI6, EB, MCF7 PRSC_con, NCI-H69, RPWE-2 NCI-H69, NCI-H69, PRWE-2 NCI-H69, NCI-H345, PRSC_con PRSC_con, PRSC_log, NCI-H345 NCI-H345, BT474, LnCap
336502 334063 333600 339424 336862 334823 329940 300275 328820 332398 325791	AW514501 Al632123	Hs.231521	CH22_FGENES.833_8 CH22_FGENES.237_17 CH22_FGENES.213_2 CH22_DJ579N18.GENSCAN.14-3 CH22_FGENES.297-2 CH22_FGENES.437_5 CH.16_p2_gij6165199 ESTs CH.07_hs_gij5868330 H sapters clone 24554 unknown mRNA CH.14_hs_gij6682476 ESTs	3.73 3.72 3.71 3.7 3.69 3.67 3.67 3.66 3.66 3.66 3.66	MB-MDA-231, BT474, PRSC_con NCI-H345, RPWE-2, PRSC_con NCI-H69, NCI-H345, PRSC_con NCI-H69, OVCA-R, PC3 NCI-H345, PRSC_con NCI-H345, PRSC_con, PRSC_log RPWE-2, PRSC_log, PRSC_con CALI6, EB, MCF7 PRSC_con, NCI-H69, RPWE-2 NCI-H69, NCI-H345, PRSC_con PRSC_con, PRSC_log, NCI-H345 NCI-H345, BT474, LnCap MCF7, MB-MDA-453, MB-MDA-435s
336502 334063 333600 339424 336862 334823 329940 300275 328820 332398 325791	AW514501  AI632123  AA446446  R14469	Hs.231521 Hs.104788	CH22_FGENES.833_8 CH22_FGENES.237_17 CH22_FGENES.213_2 CH22_DJ579N18.GENSCAN.14-3 CH22_FGENES.297-2 CH22_FGENES.297-2 CH22_FGENES.437_5 CH.16_p2 gij6165199 ESTs CH.07_hs gij5868330 H saptens done 24554 unknown mRNA CH.14_hs gij6682476	3.73 3.72 3.71 3.7 3.69 3.67 3.66 3.66 3.66 3.66 3.66	MB-MDA-231, BT474, PRSC_con NCI-H345, RPWE-2, PRSC_con NCI-H69, NCH-H345, PRSC_con NCI-H69, OVCA-R, PC3 NCI-H69, NCI-H345, PRSC_con NCI-H345, PRSC_con, PRSC_log RPWE-2, PRSC_log, PRSC_con CALLI6, EB, MCF7 PRSC_con, NCI-H69, RPWE-2 NCI-H69, NCI-H69, PRWE-2 NCI-H69, NCI-H345, PRSC_con PRSC_con, PRSC_log, NCI-H345 NCI-H345, BT474, LnCap
336502 334083 333600 339424 336852 334823 329940 300275 328820 3325791 300672 3383344 333257	AW514501 Al632123 AA44646 R14469	Hs.231521 Hs.104788 Hs.256573	CH22_FGENES.833_8 CH22_FGENES.237_17 CH22_FGENES.213_2 CH22_DJ579N18.GENSCAN.14-3 CH22_FGENES.297-2 CH22_FGENES.297-2 CH22_FGENES.397_5 CH.16_p2 gij5165199 ESTs CH.07_hs gij5868330 H saptens clone 24554 unknown mRNA CH.14_hs gij5682476 ESTs CH22_EMAC005500.GENSCAN.312-8 CH22_FGENES.118_5	3.73 3.72 3.71 3.69 3.67 3.66 3.66 3.66 3.66 3.65 3.65	MB-MDA-231, BT474, PRSC_con NCH-1345, RPWE-2, PRSC_con NCH-169, NCH-1345, PRSC_con NCH-169, NCH-1345, PRSC_con NCH-1345, PRSC_con, PRSC_log RPWE-2, PRSC_log, PRSC_con CALU6, EB, MCF7 PRSC_con, NCH-169, RPWE-2 NCH-169, NCH-1345, PRSC_con PRSC_con, PRSC_log, NCH-1345 NCH-1345, BT474, LnCap MCF7, MB-MDA-435, MB-MDA-435s NCH-1345, PRSC_log, PRSC_con DU145, EB, OVCA-R
336502 334083 333600 339424 336852 334823 329940 300275 328820 3325791 300672 3383344 333257	AW514501  AI632123  AA446446  R14469	Hs.231521 Hs.104788 Hs.256573	CH22_FGENES.833_8 CH22_FGENES.237_17 CH22_FGENES.213_2 CH22_DJ579N18.GENSCAN.14-3 CH22_FGENES.297-2 CH22_FGENES.297-2 CH22_FGENES.397_5 CH.16_p2 gij5165199 ESTs CH.07_hs gij5868330 H sapisns clone 24554 unknown mRNA CH.14_hs gij6682476 ESTs CH22_EMAC005500.GENSCAN.312-8 CH22_FGENES.118_5 ESTs	3.73 3.72 3.71 3.69 3.67 3.66 3.66 3.66 3.66 3.65 3.65 3.65	MB-MDA-231, BT474, PRSC_con NCH4345, RPWE-2, PRSC_con NCH469, NCH4345, PRSC_con NCH69, OVCA-R, PC3 NCH469, NCH4345, PRSC_con NCH345, PRSC_con, PRSC_log RPWE-2, PRSC_log, PRSC_con CALI6, EB, MCF7 PRSC_con, NCH469, RPWE-2 NCH469, NCH4345, PRSC_con PRSC_con, PRSC_log, NCH4345 NCH4345, BT474, LnCap MCF7, MB-MDA-453, MB-MDA-435s NCH4345, PRSC_log, PRSC_con
336502 334063 333600 339424 336862 334823 329940 300275 328820 332398 325791 300672 338344 333240 337489	AW514501  Al632123  AA446446  R14469  AA620724	Hs.231521 Hs.104788 Hs.256573	CH22_FGENES.833_8 CH22_FGENES.273_17 CH22_FGENES.273_2 CH22_DJ579N18.GENSCAN.14-3 CH22_FGENES.297-2 CH22_FGENES.297-2 CH22_FGENES.437_5 CH.16_p2 gij5165199 ESTs CH.07_hs gij5868330 H saplars clone 24554 unknown mRNA CH.14_hs gij5682476 ESTs CH22_EMAC005500.GENSCAN.312-8 CH22_FGENES.118_5 ESTS CH22_FGENES.799-2	3.73 3.72 3.71 3.69 3.67 3.66 3.66 3.66 3.66 3.65 3.65 3.65 3.65	MB-MDA-231, BT474, PRSC_con NCH-1345, RPWE-2, PRSC_con NCH-169, NCH-1345, PRSC_con NCH-169, NCH-1345, PRSC_con NCH-1345, PRSC_con, PRSC_log RPWE-2, PRSC_log, PRSC_con CALU6, EB, MCF7 PRSC_con, NCH-169, RPWE-2 NCH-169, NCH-1345, PRSC_con PRSC_con, PRSC_log, NCH-1345 NCH-1345, BT474, LnCap MCF7, MB-MDA-435, MB-MDA-435s NCH-1345, PRSC_log, PRSC_con DU145, EB, OVCA-R
336502 334063 333600 339424 336862 334823 329940 300275 328820 332398 325791 300672 338344 333240 337489	AW514501  Al632123  AA44646  R14469  AA620724	Hs.231521 Hs.104788 Hs.256573	CH22_FGENES.833_8 CH22_FGENES.273_17 CH22_FGENES.273_2 CH22_DJ579N18.GENSCAN.14-3 CH22_FGENES.297-2 CH22_FGENES.437_5 CH.16_p2_gij6165199 ESTs CH.07_hs_gij5868330 H saplars clone 24554 unknown mRNA CH.14_hs_gij6682476 ESTs CH22_EM-AC005500.GENSCAN.312-8 CH22_FGENES.118_5 ESTs CH22_FGENES.799-2 EST singleton (not in UniGene) with exon	3.73 3.72 3.71 3.69 3.67 3.66 3.66 3.66 3.66 3.65 3.65 3.65 3.65	MB-MDA-231, BT474, PRSC_con NCI-H345, RPWE-2, PRSC_con NCI-H69, NCI-H345, PRSC_con NCI-H69, OVCA-R, PC3 NCI-H69, OVCA-R, PC3 RPWE-2, PRSC_log, PRSC_con CALLI6, EB, MCF7 PRSC_con, NCI-H69, RPWE-2 NCI-H69, NCI-H69, RPWE-2 NCI-H69, NCI-H345, PRSC_con PRSC_con, PRSC_log, NCI-H345 NCI-H345, BT474, LnCap MCF7, MB-MDA-453, MB-MDA-435s NCI-H345, PRSC_log, PRSC_con DU145, EB, OVCA-R MB-MDA-453, DU145, MCF7 NCI-H345, NCI-H69, PRSC_log OVCA-R, MB-MDA-231, MB-MDA-435s
336502 334063 333600 339424 336862 334823 329940 300275 328820 332398 325791 300672 338344 333240 337489	AW514501  AI632123  AA446446  R14469  AA620724  AA663080	Hs.231521 Hs.104788 Hs.256573	CH22_FGENES.833_8 CH22_FGENES.273_17 CH22_FGENES.273_2 CH22_DJ579N18.GENSCAN.14-3 CH22_FGENES.297-2 CH22_FGENES.297-2 CH22_FGENES.437_5 CH.16_p2 gij5165199 ESTs CH.07_hs gij5868330 H saplars clone 24554 unknown mRNA CH.14_hs gij5682476 ESTs CH22_EMAC005500.GENSCAN.312-8 CH22_FGENES.118_5 ESTS CH22_FGENES.799-2	3.73 3.72 3.71 3.7 3.69 3.67 3.66 3.66 3.66 3.65 3.65 3.65 3.65 3.65	MB-MDA-231, BT474, PRSC_con NCI-H345, RPWE-2, PRSC_con NCI-H69, NCI-H345, PRSC_con NCI-H69, OVCA-R, PC3 NCI-H69, NCI-H345, PRSC_con NCI-H345, PRSC_con, PRSC_log RPWE-2, PRSC_log, PRSC_con CALI6, EB, MCF7 PRSC_con, NCI-H69, RPWE-2 NCI-H69, NCI-H345, PRSC_con PRSC_con, PRSC_log, NCI-H345 NCI-H345, BT474, LnCap MCF7, MB-MDA-453, MB-MDA-435s NCI-H345, PRSC_log, PRSC_con DU145, EB, OVCA-R MB-MDA-453, DU145, MCF7 NCI-H345, NCI-H69, PRSC_log

333208			CH22_FF113D11.GENSCAN.6-3	3.59	PRSC_can, NCHH69, PRSC_log
320090 335999	AB002058	Hs.113275	purmergic receptor PZX-like 1; orphan r	3.58	OVCA-R, LnCap, NCHH69
332909			CH22_FGENES.657_1 CH22_FGENES.36_13	3.57 3.57	NCHH345, NCHH69, PRSC_con
	AA991423	ı	EST strigleton (not in UniGene) with exon	3.57 3.56	NCH+1345, PRSC_con, PRSC_log BT474, MB-MDA-453, MB-MDA-435s
333261			CH22_FGENES.119 1	3.55	HT29, CALUE, MB-MDA-231
	AA176396	Hs.169624		3.54	NCHH69, NCHH345, RPWE-2
335831 333983			CH22_FGENES.620_5	3.53	MCF7, BT474, OVCA-R
333623			CH22_FGENES.310_7 CH22_FGENES.222_2	3.52 3.51	NCI-HB45, PRSC_con, PRSC_bg
333997			CH22_FGENES.310_22	3.5 3.5	NCH+69, PRSC_con, PRSC_log NCH+345, PRSC_con, PRSC_log
325623			CH.14_hs g#5867000	3.5	CALUS, HT29, BT474
	Al935829	Hs.140	immunoglobulin gamma 3 (Gm marker)	3.49	EB, MCF7, MB-MDA-453
305080 339268	AA641485		EST singleton (not in UniGene) with exon	3.49	NCI-H23, NCI-H460, NCI-358
	AH98352	Hs.105077	CH22_BA354112.GENSCAN.10-6	3.47 3.47	NCI-H69, NCI-H345, PRSC_con
	AA521458			3.46	Caco2, PRSC_con, NCHH69 NCHH23, NCHH23, NCHH520
334664			CH22_FGENES.418_15	3.45	NCHH69, PRSC_log, PRSC_con
334661	. lanena		CH22_FGENES.418_9	3.45	NCI-H69, PRSC_con, PRSC_log
333464	H38678	Hs.32766	H sapiens done 24803 mRNA seq CH22_FGENES.160_1	3.44	OVCA-R, MCF7, PC3
333580			CH22_FGENES.199_2	-3.44 3.42	NCHH69, MB-MDA-231, MCF7
	Al266254	Hs.132929		3.42	PRSC_con, NC1+169, PRSC_log RPWE-2, PRSC_con, NC1+1345
334518			CH22_FGENES.400_1	3.41	PRSC_log, PRSC_con, RPWE-2
333627	******		CH22_FGENES.225_2	3.4	HT29, BT474, BT474
309641	AW194230	Hs.253100	EST CH22_EM:AC005500.GENSCAN.246-10	3.4	HT29, MB-MDA-453, MCF7
	Al392673	Hs.125230		3.4 3.4	NCHH69, PRSC_log, NCHH345 PRSC_log, NCHH345, NCH345
	A1971806			3.38	OVCA-R, EB, CALU6
326218			CH.17_hs gij5867226	3.38	NCH460, NCH69, NCH345
336231	A 120222A		CH22_FGENES.736_3	3.38	NCHH69, NCHH345, PRSC_log
336161	Al382224		EST singleton (not in UniGene) with exon CH22 FGENES.707 6	3.37 3.37	NCH345, PRSC_con, RPWE-2
	AW134756	Hs.192477		3.37	NCH169, NCH1345, RPWE-2 RPWE-2, PRSC_log, PRSC_con
336593			CH22_FGENES.135_1	3.37	PRSC_con, NCI-H69, RPWE-2
	Al431620	Hs.160875		3.36	HT29, OVCA-R, BT474
	AA577771	No 156110	EST singleton (not in UniGene) with exon Immunoglobulin kappa variable 1D-8	3.36	NCH1345, RPWE-2, PRSC_con
336347	ADOUZDI	113,130110	CH22_FGENES.815_3	3.36 3.36	EB, DU145, CALU6 NCHH69, PRSC_log, PRSC_con
334906			CH22_FGENES.452_21	3.33	Caco2, CALU6, MB-MDA-453
334548			CH22_FGENES.403_13	3.33	NCI-H345, PRSC_con, NCI-H69
336695	A A O O 74 0 7	Un 000700	CH22_FGENES.48-4	3.32	NCI-H69, PRSC_log, PRSC_con
	Al521558	Hs 179718	ESTs; Weakly similar to WNT-1 PROTO-ON( v-myb avian myelobiastosis viral oncogen	3.3	3.31 DU145, EB, MB-MDA-231
	T93574	113.170710	EST cluster (not in UniGene)	3.3	Caco2, LnCap, NCHH69 DU145, HT29, CALU6
	Al363993	Hs.157273		3.3	NCI-H345, PRSC_con, PRSC_log
327899	A 4 E 4 4 6 6 7 7		CH.06_hs gl[5868156	3.28	BT474, MB-MDA-231, A549
330021	AA514207		EST singleton (not in UniGene) with exon CH.16_p2 gij5671889	3.28	DU145, CALU6, LnCap
338132			CH22_EM:AC005500.GENSCAN.200-2	3.27 3.27	A549, HT29, EB MB-MDA-231, CALU6, EB
	AA317497	Hs.188897	ESTs	3.27	RPWE-2, NCI-H345, MCF7
327362			CH.01_hs g#6552412	3.26	NCI-H69, RPWE-2, PRSC_Jog
333488			CH22_FGENES.167_3	3.26	NCI-H69, NCI-H345, PRSC_Jog
334106	Al129298	He 146491	CH22_FGENES.330_5 EST; Wealty similar to FERRITIN HEAVY CH	3.26	NCI-H69, PRSC_can, PRSC_log NCI-H345, PRSC_log, PRSC_con
328420			CH.07_hs gij5868411	3.26	NCHH69, NCHH345, PRSC_log
336214			CH22_FGENES.722_B	3.26	MCF7, EB, OVCA-R
	U51095	Hs.1545	caudal type homeo box transcription fact	3.25	EB, DU145, HT29
333879	A1240850	Hs.232016	CH22_FGENES.291_15	3.25	PRSC_con, PRSC_log, NCI-H69
327581	NIZTOUOU		EG 18 CH.03_hs gij5897825	3.25 3.25	NCI-H345, PRSC_con, PRSC_log EB, DU145, MB-MDA-453
	AI500429	Hs.1103	transforming growth factor; beta 1	3.24	MCF7, EB, EB
	A1608947		EST singleton (not in UniGene) with exon	3.24	PRSC_log, PRSC_con, NCHH345
329405			CH.X_hs gij5682547	3.23	DU145, HT29, MB-MDA-231
325482 337544			CH.12_hs gip866957 CH22_FGENES.833-7	3.23	NCI-H69, NCI-H345, PRSC_con
337204			CH22_FGENES.595-1	3.22 3.22	NC1H59, NC1H345, PRSC_can NC1H59, PRSC_can, PRSC_log
	AW105128		EST	3.22	PRSC_con, RPWE-2, NCI-H345
337259			CH22_FGENES.649-3	3.2	PRSC_con, NCH+345, NCH+69
336489			CH22_FGENES.831_10	3.2	CALU6, MB-MDA-435s, Caco2
334804 335739			CH22_FGENES.435_4 CH22_FGENES.601_10	3.18	PRSC_log, PRSC_con, RPWE-2
306264	AA935305	Hs.179779	ribosomal protein L37	3.18 3.17	NCHH69, RPWE-2, PRSC_con LnCap, NCHH69, EB
329386			CH.X_hs glp6004484	3.17	RPWE-2, NCHH345, PRSC_log
323479	AA278246		EST cluster (not in UniGene)	3.16	PRSC_con, NCHH345, RPWE-2
304731	AA576085		EST singleton (not in UniGene) with exon	3.16	NCHH69, LnCap, DU145

339419			CH22_DJ579N16.GENSCAN.11-11	3.15	NCHH69, PRSC_log, RPWE-2
301202	Al536797	Hs.173155	ESTs	3.15	LnCap, NCHH69, Caco2
333608			CH22_FGENES.218_3	3.15	NCI-H345, PRSC_con, PRSC_log
339193			CH22 FF113D11.GENSCAN.1-5	3.14	NCHH69, NCHH345, PRSC_con
310527	AW293404	Hs.211986		3.14	PRSC_log, PRSC_con, RPWE-2
	AA707443			3.14	PRSC_con, NCI-H69, PRSC_log
333271	MUITO	115.105505	CH22_FGENES.121_2		
				3.13	NCI-H345, NCI-H69, RPWE-2
330280			CH.05_p2 gl 6671910	3.13	NCHH69, NCHH345, PRSC_log
	AW451663		EST singleton (not in UniGene) with exon	3.13	PRSC_con, PRSC_log, RPWE-2
307588	Al285535		EST singleton (not in UniGene) with exon	3.13	MB-MDA-231, BT474, BT474
330551	U39840	Hs.105440	hepatocyte nuclear factor 3; alpha	3.13	MB-MDA-453, LnCap, Caco2
314404	AW104203			3.13	DU145, EB, OVCA-R
334030	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		CH22_FGENES.320_2	3.13	NCI-H69, NCI-H345, PRSC_con
	Al925949		EST singleton (not in UniGene) with excon		
		11- 400000		3.13	BT474, MCF7, EB
	AJ733250	ns. 192202		3.12	OVCA-R, EB, MB-MDA-453
	H71886		EST singleton (not in UniGene) with exon	3.12	PRSC_con, NCI-H69, RPWE-2
334590			CH22_FGENES.407_13	3.12	NCHH69, NCHH345, PRSC_con
333408			CH22_FGENES.145_6	3.11	PRSC_log, RPWE-2, PRSC_con
330387	H14624	Hs.31386	ESTs; Highly similar to secreted apoptos	3.11	DU145, OVCA-R, PC3.
	N23730	Hs.25647		3.11	EB, MB-MDA-453, MCF7
333682			CH22_FGENES.247_10	3.1	PRSC_con, PRSC_log, RPWE-2
	A1680562	He 246102	ESTs; Wealdy similar to REGULATOR OF M		3.1 PC3, MB-MDA-453, DU14
	AI638441	Hs.195649			
	WIO2044 I	113.133043		3.1	PRSC_con, RPWE-2, PRSC_log
333441			CH22_FGENES.151_5	3.1	RPWE-2, NCI+1345, PRSC_log
326459			CH.19_hs gij5867400	3.09	EB, CALU6, PC3
313493	AA910339	Hs.126868	ESTs	3.09	NCI-H345, PRSC_con, RPWE-2
339356			CH22_BA354112.GENSCAN.31-1	3.08	NCHH69, NCHH345, PRSC_log
333629			CH22_FGENES.226_5	3.08	NCI-H69, NCI-H345, PRSC_log
304127	H42981		EST singleton (not in UniGene) with excon	3.07	LnCap, PRSC_con, DU145
325691	1712501		CH.14_hs gij5867021	3.07	NCI-H345, PRSC_con, NCI-H69
333014			CH22_FGENES.61_6	3.07	PRSC_con, PRSC_log, NCI-H345
327379			CH.02_hs gl[5867795	3.07	PRSC_con, PRSC_log, NCHH69
337816			CH22_EM:AC005500.GENSCAN.13-1	3.06	NCHH69, PRSC_con, PRSC_log
337954			CH22_EM:AC005500.GENSCAN.96-3	3.06	PRSC_log, NCI-H69, NCI-H345
328109			CH.06_hs gij5868020	3.05	HT29, BT474, MB-MDA-231
338527			CH22_EM:AC005500.GENSCAN.396-15	3.05	NCI-H69, NCI-H345, PRSC_con
	T87761		EST cluster (not in UniGene)	3.05	BT474, MB-MDA-435s, MCF7
333466			CH22_FGENES.161_2	3.05	NCI-H345, RPWE-2, PRSC_log
334788			CH22_FGENES.432_13	3.04	
	VOTEEN				EB, A549, CALU6
	X97550		EST	3.04	OVCA-R, EB, MB-MDA-453
336238			CH22_FGENES.743_3	3.03	NCIH69, PRSC_log, PRSC_con
337606			CH22_C20H12.GENSCAN.17-2	3.02	HT29, BT474, MB-MDA-231
333545		•	CH22_FGENES.180_1	3.02	NCI-H69, NCI-H345, RPWE-2
309782	AW275156	Hs.156110	Immunoglobulin kappa variable 1D-8	3.02	PRSC_log, PRSC_con, RPWE-2
324277	AA429440	Hs.207285	ESTs	3.02	BT474, MB-MDA-231, HT29
321074	H38098	Hs.32756	ESTs	3.02	PC3, BT474, MB-MDA-231
337094			CH22_FGENES.465-19	3.01	PRSC_con, PRSC_log, RPWE-2
	AW391342		EST cluster (not in UniGene)	3	NCHH345, RPWE-2, PRSC_log
	A11001012				
329140			CH.X_hs glj6017060	3	EB, DU145, PC3
335331			CH22_FGENES.535_4	3	MB-MDA-435s, HT29, BT474
334827			CH22_FGENES.437_9	2.99	CALU6, EB, DU145
326029			CH.17_hs gi 5867176	2.99	NCI-H345, RPWE-2, PRSC_con
303100	T09353		EST	2.99	MB-MDA-453, NCI-H345, RPWE-2
328768			CH.07_hs gij6017031	2.99	NCI-H345, PRSC con, NCI-H69
329392			CH.X_hs gij6478815	2.98	NCHH69, NCHH345, PRSC_con
	AA663105	•	EST singleton (not in UniGene) with exon	2.98	LnCap, NCI-H345, MCF7
	AA601213	Ha 191798		2.98	Caco2, HT29, NCI-358
	MODILIO	12.131130			
334474	44007504	11- 405000	CH22_FGENES.394_5	2.98	NCI-H69, PRSC_con, RPWE-2
	AA007534			2.98	HT29, OVCA-R, A549
310620	Al341328	Hs.178953		2.97	PRSC_con, RPWE-2, PRSC_log
328276			CH.07_hs gi 6004471	2.97	NCI-H345, NCI-H69, RPWE-2
331018	N26904	Hs.24048	ESTs; Weakly similar to FK506/rapamycin-	2.96	Caco2, NCI-H460, A549
321523	H78472	Hs.191325	ESTs; Wealty similar to cDNA EST yk414c9	2.96	PRSC_con, PRSC_log, NCI-H345
339280			CH22_BA354I12.GENSCAN.14-12	2.96	NCHH69, PRSC log, NCHH345
	AA886428		EST singleton (not in UniGene) with exon	2.96	NCI-H520, NCI-358, MB-MDA-453
335755			CH22_FGENES.604_4		
			O 122_3 GENES.004_4	2.95	EB, A549, MB-MDA-453
		Ue teesor	EQTo	0.05	DOCK and NOT USE DOCK I'-
	AL043098	Hs.165387		2.95	PRSC_con, NCI-H345, PRSC_log
330370		Hs.165387	CH.X_p2 gij6580495	2.95	EB, DU145, MB-MDA-435s
330370 334529		Hs.165387	CH.X_p2 gij6580495 CH22_FGENES.402_9		EB, DU145, MB-MDA-435s EB, MCF7, DU145
330370		Hs.165387	CH.X_p2 gij6580495	2.95	EB, DU145, MB-MDA-435s
330370 334529		Hs.165387	CH.X_p2 gij6580495 CH22_FGENES.402_9 CH22_BA354112.GENSCAN.7-11 CH22_FGENES.432_8	2.95 2.94	EB, DU145, MB-MDA-435s EB, MCF7, DU145
330370 334529 339256 334783 335266	AL043098		CH.X_p2 gi6580495 CH22_FGENES.402_9 CH22_BA354H2_GENSCAN.7-11 CH22_FGENES.432_8 CH22_FGENES.521_2	2.95 2.94 2.94 2.94	EB, DU145, MB-MDA-435s EB, MCF7, DU145 NC1-H69, NC1-H345, PRSC_con A549, Caco2, PC3
330370 334529 339256 334783 335266	AL043098		CH.X_p2 gi6580495 CH22_FGENES.402_9 CH22_BA354H2_GENSCAN.7-11 CH22_FGENES.432_8 CH22_FGENES.521_2	2.95 2.94 2.94 2.94 2.94	EB, DU145, MB-MDA-435s EB, MCF7, DU145 NC1-H69, NC1-H345, PRSC_con A549, Caco2, PC3 NC1-H69, PRSC_con, PRSC_con
330370 334529 339256 334783 335266 323707			CH.X_p2 gi6580495 CH22_FGENES.402_9 CH22_BA354112.GENSCAN.7-11 CH22_FGENES.432_8 CH22_FGENES.521_2 ESTs	2.95 2.94 2.94 2.94 2.94 2.94	EB, DU145, MB-MDA-435s EB, MCF7, DU145 NC1-H59, NC1-H345, PRSC_con A549, Cacc2, PC3 NC1-H59, PRSC_con, PRSC_con NC1-H345, PRSC_con, PRSC_bg
330370 334529 339256 334783 335266 323707 336199	AL043098		CH.X_p2 gi6580495 CH22_FGENES.402_9 CH22_BA354112.GENSCAN.7-11 CH22_FGENES.432_8 CH22_FGENES.521_2 ESTs CH22_FGENES.719_3	2.95 2.94 2.94 2.94 2.94 2.94 2.93	EB, DU145, MB-MDA-435s EB, MCF7, DU145 NC1-H69, NC1-H345, PRSC_con A549, Caco2, PC3 NC1-H69, PRSC_con, PRSC_con NC1-H345, PRSC_con, PRSC_log NC1-H69, NC1-H345, PRSC_log
330370 334529 339256 334783 335266 323707 336199 338326	AL043098		CH.X. p2 gi6580495 CH22_FGENES.402_9 CH22_BA354112.GENSCAN.7-11 CH22_FGENES.432_8 CH22_FGENES.521_2 ESTs CH22_FGENES.719_3 CH22_EMAC005500.GENSCAN.308-2	2.95 2.94 2.94 2.94 2.94 2.94 2.93 2.93	EB, DU145, MB-MDA-435s EB, MCF7, DU145 NC1-H39, NC1-H345, PRSC_con A549, Caco2, PC3 NC1-H69, PRSC_con, PRSC_con NC1-H345, PRSC_con, PRSC_bg NC1-H69, NC1-H345, PRSC_log NC1-H69, NC1-H345, NC1-358
330370 334529 339256 334783 335266 323707 336199	AL043098		CH.X_p2 gi6580495 CH22_FGENES.402_9 CH22_BA354112.GENSCAN.7-11 CH22_FGENES.432_8 CH22_FGENES.521_2 ESTs CH22_FGENES.719_3	2.95 2.94 2.94 2.94 2.94 2.94 2.93	EB, DU145, MB-MDA-435s EB, MCF7, DU145 NC1-H69, NC1-H345, PRSC_con A549, Caco2, PC3 NC1-H69, PRSC_con, PRSC_con NC1-H345, PRSC_con, PRSC_log NC1-H69, NC1-H345, PRSC_log

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336479			CH22_FGENES.829_39	2.92	NCHH69, PRSC_con, PRSC_log	
336086			CH22_FGENES.688_15	2.92	PRSC_con, Caco2, CALU6	
338516	j		CH22_EM:AC005500.GENSCAN.392-6	2.92	NCHH69, NCHH345, PRSC_con	
320121	T93657		EST cluster (not in UniGene)	2.92	EB, BT474, HT29	
305782	2 AA844730		EST singleton (not in UniGene) with exon	2.92	MB-MDA-453, MCF7, DU145	
339304			CH22_BA354112.GENSCAN.20-16	291	PRSC_con, PRSC_log, NCHH59	
327472			CH.02_hsg#5867775	291		
	-	. Un 944740			PRSC_log, PRSC_con, RPWE-2	
	AW13942	715.244/10		291	PRSC_con, PRSC_log, RPWE-2	
338431			CHZ2_ENLAC005500.GENSCAN.351-4	2.9	BT474, MCF7, MB-MDA-453	
339230			CH22_BA354H2.GENSCAN.1-6	2.89	NCI-H69, NCI-H345, PRSC_log	
320586	NM_00364	5	EST cluster (not in UniGene)	2.89	OVCA-R, HT29, MB-MDA-231	
	AA581692		eukaryotic translation elongation factor	2.89	OVCA-R, EB, MCF7	
337768		1.0.2.100	CH22_EM:AC000097.GENSCAN.119-6	2.88		
	AA319115	Un 404FC0			NCI-H69, LnCap, DU145	
				2.88	NCI-H460, NCI-H520, NCI-358	
	W93011	Hs.110155		2.87 ·	BT474, MB-MDA-453, MB-MDA-435s	
	H08815	Hs.159824	EST .	2.87	OVCA-R, PC3, A549	
334215	i		CH22_FGENES.357_7	2.87	NCHH69, PRSC_con, PRSC_log	
333568	1		CH22_FGENES.185_1	2.87	PRSC_con, PRSC_log, NCHH69	
333142	!		CH22_FGENES.85_5	2.87	NCI-H69, HT29, HT29	
330239			CH.05_p2 gij6671857	2.87		
	R55140	Hs.31075			MB-MDA-453, MB-MDA-453, EB	
		113.310/3	ESTs; Weakly similar to Weak similarity	2.87	CALU6, MB-MDA-435s, BT474	
338679			CH22_EM:AC005500.GENSCAN.470-1	2.86	NCI-H345, PRSC_log, PRSC_con	
329041			CH.X_hs gij5868564	2.86	LnCap, PRSC_con, RPWE-2	
333541			CH22_FGENES.178_3	2.86 ·	NCHH69, NCHH345, PRSC_con	
337011			CH22_FGENES.427-6	2.86	NCHH69, PRSC_tog, PRSC_con	
324031	AA375646		EST cluster (not in UniGene)	2.86	NCHH345, PRSC_log, LnCap	
	AA416586	Hs 98232	ESTs	2.86		
336599		1 COULE	CH22_FGENES.350_3		DU145, OVCA-R, HT29	
				2.85	LnCap, NCHH69, NCHH345	
337586			CH22_C20H12.GENSCAN.5-4	2.85	NCH1345, NCH169, PRSC_con	
336177			CH22_FGENES.712_2	2.85	NCI-H69, PRSC_log, RPWE-2	
337522		_	CH22_FGENES.819-1	2.85	CALU6, OVCA-R, HT29	
338596			CH22_EM:AC005500.GENSCAN.437-2	2.85	NCHH69, PRSC_con, NCHH345	
309522	AW150044	Hs.252259	ribosomal protein S3	2.85	MB-MDA-453, MB-MDA-435s, MB-MDA-435s	
336981			CH22_FGENES.397-7	2.85	NCI-H69, PRSC_con, PRSC_log	
330286			CH.05_p2 gip671913			
333713				2.84	NCI-H345, PRSC_log, NCI-H69	
			CH22_FGENES.251_2	2.84	RPWE-2, PRSC_con, NCI-H69	
335068			CH22_FGENES.483_5	2.83	MB-MDA-231, NCI-H345, RPWE-2	
	AA641288	Hs.181165	eukaryotic translation elongation factor	2.83	EB, LnCap, DU145	
326380			CH.19_hs gij5867327	2.82	NCI-H69, PRSC_con, PRSC_log	
334970			CH22_FGENES.466_3	2.82	PRSC_con, NCI-H69, RPWE-2	
337097			CH22_FGENES.471-1	2.82	NCI-H345, NCI-H69, PRSC_log	
	AJ702835		EST cluster (not in UniGene)	2.82	LnCap, A549, CALU6	
333785			CH22_FGENES.274_4	2.82		
334175			CH22_FGENES.349_10		OVCA-R, Caco2, MB-MDA-453	
				2.81	RPWE-2, BT474, MCF7	
337865	4 4 0 0 0 5 0 4	11-040000	CH22_EM:AC005500.GENSCAN.46-5	2,81	Caco2, NCH+23, BT474	
302585	AAU83564	HS.249220	H saplens mRNA for hTbr2; complete cds	2.81	EB, DU145, MB-MDA-453	
336623			CH22_FGENES.4-5	2.81	NCI-H345, PRSC_con, NCI-H69	
332854			CH22_FGENES.22_1	2.8	RPWE-2, PRSC_log, PRSC_con	
336978			CH22_FGENES.384-10	2.8	PRSC_con, NCI-H345, RPWE-2	
326874			CH.20_hs glj6682507	2.8	RPWE-2, NCI-H345, PRSC_log	
	AA565011	Hs.105902		2.8	NCI-H345, PRSC_log, RPWE-2	
	Al638294					
334682	710000237	IDZZTOW		28 .	NCI-H69, NCI-H345, PRSC_bg	
	AW418715	11- 050000	CH22_FGENES.419_4	2.8	NCHH69, PRSC_log, RPWE-2	
				2.79	RPWE-2, NCI-H345, PRSC_log	
		Hs.50535		2.79	A549, MB-MDA-453, MB-MDA-435s	
315681	AW022054	Hs.136591	ESTs	2.78	NCI-H460, MB-MDA-453, MCF7	•
313012	Al207390	Hs.143929	ESTs	2.78	DU145, MB-MDA-453, MCF7	
313476	AA010267		EST duster (not in UniGene)	2.78	NCI-H520, NCI-H460, HT29	
327277			CH.01_hs gli5867473	2.78	DU145, CALU6, EB	
	AI494514	He 171390				
335090		110.17 (000	CH22_FGENES.490_1	2.78	LnCap, RPWE-2, NCI-H460	
	•			2.77	NCI-H69, PRSC_log, PRSC_con	
328581			CH.07_hs gii6006033	2.77	HT29, MB-MDA-453, MCF7	
333219			CH22_FGENES.104_11	2.77	NCHH69, PRSC_log, NCH+345	
308311	AJ581855		EST singleton (not in UniGene) with exon	2.77	MB-MDA-231, HT29, CALU6	
329760			CH.14_p2 gij6048280	2.77	CALU6, DU145, EB	
	AW469999	Hs.258523		277	NCI-H69, LnCap, MB-MDA-231	
337628			CH22_C20H12.GENSCAN.28-31	2.77	NCI-H69, LnCap, MB-MDA-453	
333520			CH22 FGENES.174 3			
	A A 0 TO 4 TO	U= 40		2.77	NCI-H69, NCI-H345, PRSC_con	
			ESTs; Weakly similar to estrogen-respons	2.76	DU145, OVCA-R, MB-MDA-453	
	AW138189	HS.1226/2		2.76	OVCA-R, EB, DU145	
328474			CH.07_hs glj5868446	2.76	NCI-H69, NCI-H345, RPWE-2	
331988	AA477414	Hs.9242	purine-rich element binding protein B	2.76	MB-MDA-435s, A549, OVCA-R	
	AA922503		EST singleton (not in UniGene) with exon	2.76	NCI-H69, DU145, LnCap	
			Colod? offender models 4			
	AAD13011	13.241507	COO42 enector protein 4		PROU MU, PROM. THE NEI LAPARE	
302022			Cdc42 effector protein 4 EST	2.76 2.76	PRSC_log, PRSC_con, NCH1345 NCH1345 RPWE-2 NCLH60	
	W73400		EST	2.76	NCI-H345, RPWE-2, NCI-H69	
	W73400					

225000			orbon comicco esc. 40	975	NOT USD DOCC oon DOME-2
335998	D44000	LI- 72040	CH22_FGENES.656_16	2.75 2.75	NCI-H69, PRSC_con, RPWE-2 NCI-H345, NCI-H69, PRSC_con
336387	R11699	Hs.73818	ubiquinol-cytochrome c reductase hinge p CH22_FGENES.822_7	2.75	PRSC_con, RPWE-2, PRSC_log
338054			CH22_FGENES.022_7 CH22_EMAC005500.GENSCAN.158-2	2.75	OVCA-R, EB, DU145
	AA719183		EST cluster (not in UniGene)	2.74	DU145, MCF7, MB-MDA-453
336863			CH22_FGENES.297-4	2.74	MB-MDA-453, MCF7, OVCA-R
335975			CH22_FGENES.652_9	2.74	CALUB, EB, A549
	AF103179		EST ·	2.74	CALU6, MB-MDA-435s, BT474
326122			CH.17_hs gij5867194	2.74	HT29, Caco2, PC3
337427			CH22_FGENES.761-4	2.74	RPWE-2, NCHH69, PRSC_log
	Al469244	Hs.119252	tumor protein; translationally-controlle	2.74	NCI-358, NCI-H23, Caco2
325433			CH.12_hs gl 5866936	2.74	NCHH345, PRSC_con, RPWE-2
	Al572633	Hs.190406		2.74	OVCA-R, MCF7, A549
		Hs.170301		2.74	NCHH345, PRSC_con, RPWE-2
	AW467335	HS.23/6/6		2.74 2.74	HT29, MCF7, MB-MDA-231 NCI-H69, LnCap, PRSC_con
335455	AA583101	U <sub>0</sub> 20707	CH22_FGENES.562_15 ribosomal protein L10	2.73	EB. OVCA-R. MB-MDA-453
	AA469937			2.73	MCF7, BT474, NCHH460
336198	/M100307	المراسية	CH22_FGENES.719_2	2.73	NCHH69, PRSC_con, PRSC_log
	Al660452	Hs.187127	=	2.73	MB-MDA-231, LnCap, BT474
	Al419692		EST singleton (not in UniGene) with exon	2.73	HT29, HT29, EB
	AI088590	Hs.134702		2.73	PRSC_log, NCI-H345, PRSC_con
327833			CH.05_hs gl\(\frac{1}{2}\)5867968	2.73	BT474, PC3, MB-MDA-231
300221	AW449602	Hs.217953	ESTs; Highly similar to NK-TUMOR RECOGN	11	2.73 NCI-H520, NCI-358, MB-MDA-453
326039			CH.17_hs gi[5867179	273	MB-MDA-453, EB, EB
318457	Al149678	Hs.143952	ESTs	2.72	PRSC_con, PRSC_log, NCI-H345
336753			CH22_FGENES.128-9	2.72	MB-MDA-435s, NCI-H520, MCF7
330086			CH.19_p2 gi[6015293	2.72	HT29, MB-MDA-453, MCF7
333566			CH22_FGENES.183_2	2.72	HT29, BT474, OVCA-R NCH69, NCH345, PRSC_log
339384			CH22_BA232E17.GENSCAN.3-22	2.71	
338668	A1202C49	Hs.194613	CH22_EMAC005500.GENSCAN.465-1	2.71 2.71	NCI-H69, RPWE-2, PRSC_can PRSC_can, NCI-H345, PRSC_log
	Al382618 Al142379	LI27.134019	EST	2.71	PRSC_log, PRSC_con, RPWE-2
	AA666301		EST singleton (not in UniGene) with exon	2.71	EB, NCI-H520, OVCA-R
338725	AMOUDO		CH22_EM:AC005500.GENSCAN.499-1	2.7	CALUS, MB-MDA-453, PC3
	AI351112	•	EST singleton (not in UniGene) with exon	2.7	HT29, BT474, MCF7
	AW173642	Hs.250106		2.69	NCI-358, NCI-H69, NCI-H23
	L10141		EST	2.69	OVCA-R, BT474, PC3
308544	AI695133		EST singleton (not in UniGene) with exon	2.69	HT29, CALU6, MB-MDA-435s
322877	AA079727		EST cluster (not in UniGene)	2.69	NCI-H345, NCI-H69, PRSC_con
325695			CH.14_hs gij6552446	2.69	NCI-H69, NCI-H460; NCI-H460
	Al335557		EST singleton (not in UniGene) with exon	2.68	NCHH69, PRSC_Jog, NCH358
	N79524		EST	2.68	NCHH69, PRSC_con, NCHH345
	AW028652		EST singleton (not in UniGene) with exon	2.68	HT29, MB-MDA-231, MB-MDA-231
339360			CH22_BA354I12.GENSCAN.32-2	2.68 2.68	NCI-H69, PRSC_log, PRSC_con PRSC_con, PRSC_log, PRSC_log
337821 337338			CH22_EM:AC005500.GENSCAN.13-11 CH22_FGENES.717-7	2.68	NCHH69, PRSC_con, PRSC_log
334510			CH22_FGENES.398_8	2.68	NCI-H460, NCI-H23, NCI-358
	AA491286	Hs 128792		2.68	MB-MDA-435s, CALU6, DU145
335536			CH22_FGENES.574_2	2.67	NCI-H69, NCI-H345, PRSC_log
335311			CH22_FGENES.532_4	2.67	MB-MDA-435s, Caco2, A549
338959			CH22_DJ32I10.GENSCAN.23-31	2.67	NCI-H345, PRSC_con, NCI-H69
339081			CH22_DA59H18.GENSCAN.37-10	2.67	NCI-H345, RPWE-2, NCI-H69
334068			CH22_FGENES.327_23	2.67	PRSC_con, RPWE-2, PRSC_log
338976			CH22_DA59H18.GENSCAN.1-3	2.66	PRSC_con, PRSC_log, RPWE-2
325524			CH.12_hs gi[5866981	2.66	NCHH345, RPWE-2, PRSC_con
333069			CH22_FGENES.76_5	2.66	NC1+169, NC1+1345, PRSC_con OVCA-R, PC3, A549
336203			CH22_FGENES.719_7	2.66 2.66	HT29, OVCA-R, A549
333133	T77842	Hs.142528	CH22_FGENES.83_9	2.65	DU145, CALU6, EB
	AA224594		ESTs	2.65	PRSC_con, RPWE-2, LnCap
333248		1100071	CH22_FGENES.115_5	2.65	NCI-H345, PRSC_con, MB-MDA-231
336665			CH22_FGENES.42-2	2.65	NCI-H69, PRSC_log, PRSC_con
	AA770599		EST cluster (not in UniGene)	2.65	A549, MB-MDA-453, MB-MDA-4359
307474	Al264023		EST singleton (not in UniGene) with exon	2.65	NCI-H69, NCI-H345, RPWE-2
320221	AL050020	Hs.127384	DKFZP564C196 protein	2.65	MB-MDA-453, MCF7, HT29
301767	AW361892		EST	2.65	NCH+345, PRSC_con, PRSC_log
327246			CH.01_hs gij5867547	2.65	EB, OVCA-R, DU145
337403			CH22_FGENES.752-2	2.65	PRSC_con, PRSC_log, RPWE-2
328221			CH.06_hs gi[5868099	2.64	MCF7, MB-MDA-231, BT474
336759			CH22_FGENES.133-2	2.64	NCI-H69, PRSC_log, PRSC_con
327532	A A TROOPS	,	CH.02_hs gij6469818	2.64	PC3, CALU6, A549
	AA789095	Ue 454704	EST singleton (not in UniGene) with exon	2.64	HT29, MB-MDA-231, MB-MDA-453 PRSC_con, RPWE-2, NCI-H345
	AA099329	132 101104		2.64 2.64	EB, NCH460, NCH69
327278	N51413	Hs.109284	CH.01_hs gl[5867473	2.64	DU145, EB, OVCA-R
الكوليان	.10.110			2.07	,,,,,

227701			Alma Faraira a		
332792		11- 470000	CH22_FGENES.3_2	2.63	HT29, Caco2, A549
		Hs.176333		2.63	NCI-358, NCI-358, HT29
337484			CH22_FGENES.795-8	2.63	NCHH69, NCHH345, PRSC_con
325783			CH.14_hs g/[6456780	2.63	EB, OVCA-R, PC3
		) Hs.210527		2.63	PRSC_log, NCH+1345, NCH+169
	AA894560		EST singleton (not in UniGene) with exon	2.63	HT29, MB-MDA-231, CALU6
	A1695484		EST singleton (not in UniGene) with exon	2.63	PC3, A549, NCI-358
337930			CH22_EM:AC005500.GENSCAN.81-3	2.62	PC3, OVCA-R, MCF7
327791			CH.05_hs gl 5867977	2.62	PRSC_log, PRSC_con, NCH+345
	AA232678	Hs.8/0/3	ESTs	2.62	OVCA-R, MCF7, LnCap
327259			CH_01_hs gl\$5867454	2.62	NCI-H345, PRSC_con, RPWE-2
302150	AF061756	Hs.152531	heart and neural crest derivatives expre	2.61	OVGA-R, PC3, A549
304887	AA598501	Hs.195188	glyceratdehyde-3-phosphate dehydrogenase	2.61	MB-MDA-435s, NCI-H23, MCF7
335956			CH22_FGENES.647_3	2.61	DU145, PRSC_con, PC3
326506			CH.19_hs gij5867435	2.61	RPWE-2, NCI-H460, NCI-358
335863			CH22_FGENES.629_8	2.61	PC3, HT29, NCI-358
334752			CH22_FGENES.428_1	2.61	PRSC_con, NCHH59, PRSC_log
333288			CH22_FGENES.128_19	2.61 ·	HT29, NCI-358, Caco2
		Hs.131477		2.61	MB-MDA-435s, MCF7, BT474
	AAB54776		EST singleton (not in UniGene) with exon	2.6	MB-MDA-453, MCF7, MB-MDA-435s
327264			CH.01_hs gip5867461	2.6	MB-MDA-435s, MB-MDA-435s, MB-MDA-453
			ribosomal protein S3	2.6	OVCA-R, EB, DU145
		Hs.135179		2.6	DU145, EB, OVCA-R
	AA526549		EST cluster (not in UniGene)	26	PRSC_con, RPWE-2, PRSC_log
329384			CH.X_hs gi[5868869	2.6	NCI-H69, NCI-H345, PRSC_con
	M62378		EST cluster (not in UniGene)	2.6	BT474, CALU6, MB-MDA-231
302751	AA299576	Hs.156110	Immunoglobulin kappa variable 1D-8	2.59	MCF7, MB-MDA-453, OVCA-R
	AA860348		EST singleton (not in UniGene) with exon	2.59	NCI-H345, PRSC_log, PRSC_con
	AA402242	Hs.122799	ESTs	2.58	EB, PC3, HT29
334196			CH22_FGENES.353_4	2.58	NCI-H345, NCI-H69, PRSC_con
338451			CH22_EM:AC005500.GENSCAN.359-39	2.58	MB-MDA-435s, NCI-H23, MCF7
		Hs.227052		2.58	PRSC_con, PRSC_log, NCI-H69
	AA632201		EST singleton (not in UniGene) with exon	2.58	NCI-H460, MB-MDA-453, MB-MDA-435s
305648	AA807652	Hs.156110	Immunoglobulin kappa variable 1D-8	2.57	PRSC_con, RPWE-2, NCI-H345
	W22230		EST	2.57	PRSC_con, PRSC_log, NCI-H345
329182			CH.X_hs gi[6056331	2.57	PRSC_con, RPWE-2, NCI-H345
	AW137425	Hs.158401		2.57	MB-MDA-231, PRSC_con, BT474
330057			CH.17_p2 gij6478962	2.57	NCI-H345, RPWE-2, PRSC_con
326552			CH.19_hs gl[5867308	2.57 ·	NCI-H345, PRSC_con, RPWE-2
	T67085	Hs.188464		2.57	HT29, MB-MDA-453, NCI-H460
327185			CH.01_hs gij6117805	2.57	CALU6, HT29, EB
	NM_00224		EST	2.57	MCF7, PC3, OVCA-R
327263			CH.01_hs gij6525274	2.56	PRSC_con, NCI-H69, PRSC_log
339164			CH22_DA59H18.GENSCAN,69-4	2.56	NCHH69, PRSC_con, NCHH345
	AA063554		ESTs	2.56	RPWE-2, NCI-H345, PRSC_con
	U67733	Hs.154437	phosphodiesterase 2A; cGMP-stimulated	2.55	HT29, CALU6, PC3
329948			CH.16_p2 gip540101	2.55	NCI-H460, MCF7, MB-MDA-453
300282	AW044305	Hs.236131	ESTs; Highly similar to homeodomain-inte	2.55	NCHH460, NCHH23, NCHH23
335448			CH22_FGENES.562_5	2.55	MB-MDA-453, BT474, MCF7
	H09174	Hs.26484	HIRA-interacting protein 3	2.55	MB-MDA-453, HT29, MCF7
	Al202100		EST singleton (not in UniGene) with exon	2.55	MCF7, DU145, MB-MDA-435s
335806			CH22_FGENES.616_8	2.55	NCI-H345, NCI-H69, PRSC_con
335782			CH22_FGENES.609_4	2.55	Caco2, MB-MDA-453, MB-MDA-435s
	AW301478		EST	2.55	PC3, MCF7, MB-MDA-453
329018			CH.X_hs gi]6249620	2.54	NCI-H69, PRSC_log, PRSC_con
329870			CH.14_p2 glp5706435	2.54	NCI-H23, NCI-H460, NCI-358
334504			CH22_FGENES.398_2	2.54	HT29, BT474, MB-MDA-231
	AA564846		EST singleton (not in UniGene) with exon	2.53	NCI-H520, EB, NCI-H460
329326	•		CH.X_hs gij5868806	2.53	MB-MDA-231, NCI-H345, NCI-H69
334418			CH22_FGENES.384_5	2.53	NCI-H23, NCI-358, NCI-H460
338124			CH22_EM:AC005500.GENSCAN.196-2	2.53	NCI-H69, PRSC_con, PRSC_log
318423	Al362671	Hs.214491		2.53	OVCA-R, EB, DU145
333006				2.53	NCI-H69, PRSC_con, PRSC_log
333668				2.53	NCI-H69, PRSC_log, PRSC_con
333567				2.53	NCI-H69, NCI-H345, PRSC_con
	AW172384		EST singleton (not in UniGene) with exon		LnCap, NCHH69, DU145
328989				2.52	MB-MDA-435s, OVCA-R, EB
326725			CH.20_ha gij6552456	2.52	PRSC_con, NCI-H345, NCI-H69
302996	AF054663		EST		HT29, BT474, CALU6
335733			CH22_FGENES.601_3		NCI-H69, PRSC_Jog, NCI-H345
336000			CH22_FGENES.658_1		LnCap, OVCA-R, DU145
327774			CH.05_hs gij5867964		DU145, CALU6, HT29
328557					MB-MDA-453, MB-MDA-435s, MCF7
328228					NCI-H69, NCI-H345, PRSC con
328305			CH.07_hs gij6004478	2.52	NCHH69, NCHH460, PRSC_log
334010			CH22_FGENES.313_1	2.51	NCHH69, PRSC_log, PRSC_con
					•

339033			CH22 DA59H18.GENSCAN.26-1	2.51	NCHH69, NCHH345, PRSC_con
335340			CH22_FGENES.535_17	2.51	NCHH69, PRSC_con, PRSC_log
	Al245582			2.51	PRSC_con, PRSC_log, NCI-H345
			Immunoglobulin kappa variable 1D-8	2.5	EB, OVCA-R, DU145
336908	AI968009	MS.ZJZUZ4	CH22_FGENES.343-2	25 25	LnCap, NCI-358, CALU6 NCI-H345, RPWE-2, PRSC_log
	AA541735		EST singleton (not in UniGene) with exan	25	RPWE-2, NCI-H69, MCF7
		Hs.107149	ESTs; Weakly similar to PTB-ASSOCIATED	S2.5	NCI-H460, EB, Caco2
	Al285739		EST singleton (not in UniGene) with exon	2.5	PRSC_con, NCI-H345, PRSC_log
331476 325803	N26190	Hs.43768		25 25	NCI-H345, NCI-H69, PRSC_con
	AA993796		CH.14_hs gl/6552451 EST singleton (not in UniGene) with exon	2.49	NCH345, RPWE-2, PRSC_con A549, OVCA-R, CALU6
	AA586504		EST singleton (not in UniGene) with exon	2.49	MCF7, DU145, LnCap
336333			CH22_FGENES.813_1	2.49	NCI-H345, PRSC_con, PRSC_log
	T71134	Hs.100551		2.49	NCI-H345, LnCap, RPWE-2
328236	A1656979	Hs.130210	CH.06_hs g1/5868117	2.49 2.49	PRSC_con, NCH1345, PRSC_log MCF7, MB-MDA-453, PC3
339188	A1000077	113.1502.10	CH22_DA59H18.GENSCAN,72-16	248	NCHH69, PRSC_con, PRSC_log
334235			CH22_FGENES.361_19	2.48	NCI-H520, MB-MDA-453, A549
	AW450950	Hs.157034	ESTs; Weakly similar to Unknown [H.sapie	2.48	HT29, A549, A549
332843			CH22_FGENES.19_1	2.48	DU145, CALU6, EB
337431 336757			CH22_FGENES.763-7 CH22_FGENES.131-1	2.48 2.48	PRSC_con, RPWE-2, NCI-H69 NCI-H69, PRSC_log, PRSC_con
	AA723748		EST singleton (not in UniGene) with exon	2.48	NCH+23, DU145, OVCA-R
330065			CH.19_p2 glf6165044	2.48	PRSC_con, PRSC_log, NCI-H69
	A1972447		EST singleton (not in UniGene) with exon	2.48	MB-MDA-231, NCHH69, HT29
328876 333944			CH.07_hs gi[6525286	2.47	MB-MDA-231, CALU6, PC3 NCHH69, RPWE-2, PRSC_log
328504			CH22_FGENES.302_2 CH.07_hs gij5868471	2.47 2.47	LnCap, MB-MDA-453, MB-MDA-435s
338120			CH22_EM:AC005500.GENSCAN.195-1	2.47	MB-MDA-231, NCI-H69, PRSC_con
	A1024221		EST singleton (not in UniGene) with exon	2.47	OVCA-R, EB, LnCap
	AA636012		EST singleton (not in UniGene) with exon	2.47	NCHH69, RPWE-2, PRSC_con
329995 315694	AIR24743	He 168418	CH.16_p2 gij4567166 ESTs; Moderately similar to IIII ALU SUB	2.47 2.46	OVCA-R, DU145, MB-MDA-453 EB, A549, LnCap
	H64622	Hs.32748		2.46	EB, MCF7, MB-MDA-435s
305259	AA679225		EST singleton (not in UniGene) with exon	2.46	PRSC_con, NCI-H345, RPWE-2
	AA496563		EST singleton (not in UniGene) with exon	2.46	PRSC_con, RPWE-2, PRSC_log
	R60487 AI868958	Hs.21065	EST singleton (not in UniGene) with exon	2.46 2.46	NCI-H345, Caco2, Caco2 PRSC_con, PRSC_log, RPWE-2
	A1807692	Hs.207128		2.46	OVCA-R, MB-MDA-231, HT29
	AA088500			2.46	PRSC_log, PRSC_con, NCI-H345
339130			CH22_DA59H18.GENSCAN.56-3	2.46	NCI-H345, PRSC_con, RPWE-2
337612	A18/2004/04	LL 40E004	CH22_C20H12.GENSCAN.22-5	2.46	EB, A549, Caco2
	AW294254		ESTs; Wealthy similar to gag [H.saplens]	2.45 2.45	RPWE-2, PRSC_log, PRSC_con PRSC_log, RPWE-2, PRSC_con
328620	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		CH.07_hs gi 5868241	2.45	MB-MDA-453, MCF7, MB-MDA-435s
	AA708902		EST singleton (not in UniGene) with exon	2.45 .	HT29, MB-MDA-435s, A549
336243	1100000	11 433404	CH22_FGENES.746_1	2.44	OVCA-R, MB-MDA-453, MB-MDA-435s
	H08323 H48676	Hs.177181	EST	2.44 2.44	PRSC_con, RPWE-2, NCI-H345 MB-MDA-453, EB, DU145
333465	1140070	•	CH22 FGENES,160 2	244	NCI-H69, PRSC_con, PRSC_log
334109	·		CH22_FGENES.330_8	2.44	NCHH69, NCHH345, PRSC_log
	F12998	Hs.90790 '		2.44	NCI-H345, RPWE-2, PRSC_log
	AW502257	,	EST cluster (not in UniGene)	2.44	NCI-H345, PRSC_con, RPWE-2
337114 336087			CH22_FGENES.494-17 CH22_FGENES.688_16	2.44 2.44	PRSC_con, Cacco2, PRSC_log
	Al657119	Hs.120036		2.44	NCI-358, PC3, NCI-H23
333258			CH22_FGENES.118_6	2.44	MB-MDA-231, HT29, CALU6
	V00505	Hs.36977	hemoglobin; delta	2.44	MB-MDA-435s, MCF7, MB-MDA-453
	AW268822 Al122843		EST singleton (not in UniGene) with exon EST cluster (not in UniGene)	2.44 2.44	MB-MDA-453, EB, MCF7 PC3, OVCA-R, DU145
	AL133656		EST cluster (not in UniGene)	244	DU145, CALU6, CALU6
338151			CH22_EM:AC005500.GENSCAN.207-5	2.44	PRSC_con, PRSC_log, RPWE-2
327056			CH.21_hs gif6531965	2.44	PRSC_con, NCI-H345, RPWE-2
	AW182800		EST singleton (not in UniGene) with exon	2.43	NCI-358, NCI-H23, NCI-H520
335783 325790			CH22_FGENES.610_3 CH.14_hs gi6381957	2.43 2.43	PRSC_con, PRSC_tog, NCI+1345 MB-MDA-435s, MB-MDA-453, MB-MDA-453
339342			CH22_BA354I12,GENSCAN.27-10	2.43	BT474, MB-MDA-231, MB-MDA-453
335777			CH22_FGENES.607_13	2.43	DU145, EB, BT474
	AW450350	Hs.257283		2.43	MCF7, MB-MDA-453, OVCA-R
	Al798009		EST singleton (not in UniGene) with exon	2.43	NCH1345, PRSC_con, PRSC_log
338087	Al124518		CH22_EM:AC005500.GENSCAN.174-16 EST singleton (not in UniGene) with exon	2.43 2.43	DU145, PC3, CALU6 NCHH69, MCF7, BT474
	AW409728	Hs.80449	ESTs; Weakly similar to cytoplasmic dyne	2.43	RPWE-2, A549, NCH169
	AA157834		EST singleton (not in UniGene) with exon	2.43	MB-MDA-453, PC3, OVCA-R
	R54766	Hs.101120	ESTs	2.43	MCF7, MB-MDA-435s, MB-MDA-453

33528			CH22_FGENES.524_4	2.43	PC3, LnCap, A549
31743	1 Al675790	Hs.13245	3 ESTs	2.43	NCH1345, RPWE-2, PRSC_log
30651	1 AA98889	1	EST singleton (not in UniGene) with exon	2.43	OVCA-R, EB, DU145
33329	8		CH22_FGENES.133_4	2.43	EB, DU145, PC3
32843	6		CH.07_hs gl[5868417	2.43	
33342	Ď	•	CH22_FGENES.146_11	2.43	EB, LnCap, A549
33811			CH22_EM:AC005500.GENSCAN,188-13		NCHH345, NCHH69, PRSC_log
33518				2.42	DU145, EB, CALU6
32916	_		CH22_FGENES.507_3	2.42	EB, A549, BT474
			CHX_hag15868691	2.42	RPWE-2, PRSC_con, PRSC_log
33631			CHZ2_FGENES.799_11	2.42	MB-MDA-435s, MCF7, NCI-H69
	1 Al927594	Hs.16114	2 ESTS	2.42	NCI-H345, PRSC_con, PRSC_log
32733	-		CH.01_hs gip5902477	2.42	MB-MDA-453, MB-MDA-435s, MCF7
334017			CH22_FGENES.315_2	2.42	PRSC_con, PRSC_log, RPWE-2
30813	3 aj494446		EST singiston (not in UniGene) with exon	2.42	DU145, LnCap, EB
333074	\$		CH22_FGENES.76_10	2.42	NCHH69, RPWE-2; PRSC_log
306546	S AA993109	•	EST singleton (not in UniGene) with exon	2.42	HT29, CALUE, LnCap
336516	5		CH22_FGENES.836 1	2.42	
306791	A1042387		EST singleton (not in UniGene) with exon	2.42	NCHH69, PRSC_con, PRSC_log
329411			CH.X_hs gl[6682549		CALLIS, DU145, EB
	AI750091		EST singleton (not in UniGene) with exon	2.42	OVCA-R, EB, LnCap
		Hs.143127		2.41	EB, DU145, CALU6
326073		113.14312		2.41	DU145, EB, CALU6
334047			CH.17_hs gi[6682495	2.41	DU145, A549, MB-MDA-435s
			CH22_FGENES.326_5	2.41	PRSC_con, PRSC_log, NCH1345
325464			CHL12_hs gij5866947	2.41	NCI-358, NCI-H23, NCI-H460
334764			CH22_FGENES.428_13	2.41	NCI-H69, NCI-H345, RPWE-2
312737	' Al033500	Hs.132895	i ESTs	2.41	OVCA-R, DU145, CALU6
306591	A2000248		EST singleton (not in UniGene) with exon	2.41	MB-MDA-231, MCF7, DU145
333582			CH22_FGENES.201_2	2.41	NCI-H69, PRSC_con, PRSC_log
337843	;		CH22_EM:AC005500.GENSCAN.30-8	24	EB. LnCan. A549
335284			CH22_FGENES.526_6	24	
	AA653159	ı	EST singleton (not in UniGene) with exon	2.4	NCHH69, NCHH345, PRSC_log
335527			CH22_FGENES.572_7		DU145, HT29, MB-MDA-453
336795				2.4	DU145, OVCA-R, EB
	AF202889		CH22_FGENES.176-5	2.4	NCHH69, NCHH345, PRSC_log
334948			EST	2.4	PRSC_con, PRSC_log, NCHH69
			CH22_FGENES.465_15	2.4	PRSC_con, PRSC_log, RPWE-2
328860			CH.07_hs gij6381928	2.4	PRSC_con, PRSC_log, NCI-H345
	Al365585	Hs.146246		2.4	NCI-H460, A549, HT29
333561			CH22_FGENES.180_18	2.4	OVCA-R, EB, DU145
338239			CH22_EM:AC005500.GENSCAN.264-5	2.4	NCHH69, NCHH345, PRSC con
323670	AL040411	Hs.161763	ESTs; Wealty similar to KIAA0738 protein	2.4	DU145, MB-MDA-453, EB
305903	AA873085		EST singleton (not in UniGene) with exon	2.4	MCF7, A549, NCI-H520
312573	AW297673	Hs.190526	ESTs	2.4	LnCap, NCI-H460, NCI-H23
334470			CH22_FGENES.394_1	2.4	
333272	•		CH22_FGENES.122_1	2.39	NCH+520, HT29, NCH+23
304010	AW518383	Hs.177592	ribosomal protein; large; P1	2.39	NCI-H345, PRSC_con, RPWE-2
337316			CH22_FGENES.692-1		DU145, CALU6, EB
	Al914939	Hs.212184		2.39	MCF7, BT474, OVCA-R
336280	70317003	13.212104		2.39	PRSC_con, NCHH345, RPWE-2
	T98872	Un 404404	CH22_FGENES.763_4	2.39	NCI-H345, PRSC_log, PRSC_con
	1900/2	Hs.194181		2.39	DU145, HT29, PC3
337172			CH22_FGENES.565-2	2.39	EB, OVCA-R, DU145
300525	Al671992	HS.143631	ESTs; Weakly similar to WASP-family prot	2.39	EB, NCI-H520, LnCap
337092			CH22_FGENES.465-12	2.39	PRSC_con, PRSC_log, NCI-H69
334528			CH22_FGENES.402_8	2.39	NCHH345, PRSC_con, NCHH69
338411			CH22_EM:AC005500.GENSCAN.341-7	2.39	NCHH345, NCHH69, PRSC_con
331344	AA357927	Hs.70208	ESTs	2.39	PC3, EB, A549
334044			CH22_FGENES.323_2	2.38	MB-MDA-231, MCF7, LnCap
333918			CH22 FGENES.296 7	2.38	RPWE-2, NCI-H345, EB
317168	AI042614	Hs.125910	ESTS	2.38	
333424			CH22_FGENES.147_4		NCI-H345, PRSC_con, RPWE-2
	AWASOS1S	Hs.128381		2.38	DU145, MCF7, OVCA-R
		Hs.190219		2.38	EB, DU145, OVCA-R
				2.38	OVCA-R, EB, CALU6
2004/1	MYZ/U313	Hs.149596	ESIS	2.38	NCI-H460, NCI-H23, NCI-H23
323043	AVV410339	ns.200310	ESTs; Weakly similar to centaurin beta2	2.38	PRSC_con, RPWE-2, NC1+1345
	AA670431		EST singleton (not in UniGene) with exon	2.38	MB-MDA-453, MB-MDA-231, A549
337760	****		CH22_EN:AC000097.GENSCAN.116-8	2.38	PRSC_con, PRSC_log, RPWE-2
	AW204380	Hs.208662	ESTs	2.38	NCI-H345, NCI-H69, LnCap
337548			CH22_FGENES.844-5	2.38	MB-MDA-453, MCF7, CALU6
326981		-	CH.21_hs qii6588016	2.38	NCH1345, NCH169, PRSC COR
	AW182066		EST singleton (not in UniGene) with exon	- 237	RPWE-2, NCI-358, NCI-H69
328936			CH.08_hs gij5868500	237	
327937			CH.06_hs gli5868192		OVCA-R, MB-MDA-453, CALLIS
328282			CH_07_hs gl[5868353	2.37	BT474, EB, OVCA-R
	VI UNESSO	He 20220E	ESTs; Weakly similar to Naft alpha prote	2.37 .	DU145, CALU6, CALU6
204227	MOSCO A	113-2U02U0	coro, vvcany anniar to Nati alpha prote	2.37	LnCap, PRSC_log, NCH1345
	N94974		ribosomal protein S4; X-linked	2.37	EB, PC3, OVCA-R
		Hs.257542		2.37	OVCA-R, CALUE, CALUE
325026	AJ671168	Hs.12285	E218	2.37	NCI-H345, PRSC_con, PRSC_log
				•	

245046					
_	A1659989	Hs.132625	ESTs	2.37	MB-MDA-453, MB-MDA-231, LnCap
328662			CH.07_hs gl)6004473	2.37	NCI-H345, RPWE-2, PRSC_con
	AA864572		EST singleton (not in UniGene) with exon	2.37	MCF7, MB-MDA-453, MB-MDA-231
	PAROUSIZ				
333296	004440	11 400000	CH22_FGENES.132_3	2.37	EB, PC3, CALU6
	R01116	Hs.182059		2.36	OVCA-R, MB-MDA-453, A549
333698			CH22_FGENES.250_12	2.36	HT29, OVCA-R, Caco2
316423	AA758756	Hs.121380	ESTs	2.36	HT29, MCF7, MB-MDA-435s
323189	AL121194	Hs.120589	ESTs	2.36	PC3, NC1+1460, DU145
	Z43296	Hs.18720	programmed cell death 8 (apoptosis-induc	2.36	OVCA-R, A549, MB-MDA-453
334237	2,10200	110.10120	CH22_FGENES.362_1	2.36	
	A 17004 40	No 447200			NCHH345, NCHH69, LnCap
	AJ700148	, MS.11/328		2.36	MCF7, NCI-H345, DU145
326884			CH.20_hs gij6682511	2.36	A549, EB, PC3
333132			CH22_FGENES.83_8	2.36	NCI-H69, HT29, EB
306574	AA995719	Hs.76067	heat shock 27kD protein 1	2.36	RPWE-2, PRSC_log, PRSC_con
324416	Al669524	Hs.194115	ESTS	2.36	NCHH345, RPWE-2, PRSC_con
329496			CH.10_p2 gl 3983518	2.35	HT29, MCF7, MB-MDA-231
	H22381				
		11- 040-0	EST cluster (not in UniGene)	2.35	NCHH23, A549, CALU6
	AA461139	H3.243/2	ESTs; Wealdy similar to d.1207H1.1 [H.sap	2.35	PRSC_con, RPWE-2, PRSC_log
	AW444488		EST singleton (not in UniGene) with exon	2.35	NCI-H345, PRSC_con, PRSC_bg
327009		·	CH.21_hs gij5867664	2.35	HT29, BT474, MCF7
309594	AW172821	Hs.181165	eukaryotic translation elongation factor	2.35	HT29, DU145, EB
335468			CH22_FGENES.567_4	2.35	NCI-H69, PRSC_con, NCI-H345
	AA069029		EST singleton (not in UniGene) with exon	2.35	
					PRSC_con, PRSC_log, RPWE-2
	AA865649		EST singleton (not in UniGene) with exon	2.35	A549, MCF7, OVCA-R
	AA815428		EST singleton (not in UniGene) with exon	2.35	PRSC_con, NCI-H345, PRSC_log
326423			CH.19_hs gi 5867369	2.34	PC3, MCF7, LnCap
334560			CH22_FGENES.404_3	2.34	HT29, NCI-H460, MB-MDA-435s
337100			CH22_FGENES.472-3	2.34	PRSC_log, PRSC_con, RPWE-2
	AW014374	He 144R49		234	CALU6, MB-MDA-231, DU145 -
	AW298359			2.34	PRSC_con, RPWE-2, PRSC_log
		115.221005			
	AA845035		EST singleton (not in UniGene) with exon	2.34	NCHH23, NCHH520, NCHH460
338686	•		CH22_EM:AC005500.GENSCAN.472-5	2.33	BT474, MB-MDA-231, MB-MDA-453
331977	AA465207	Hs.125887	ESTs	2.33	OVCA-R, A549, MB-MDA-435s
314687	M79114	Hs.135177	ESTs	2.33	NCHH69, PRSC_con, NCHH345
336089			CH22_FGENES.688_18	2.33	PRSC_con, Caco2, PRSC_log
338952			CH22_DJ32I10.GENSCAN.23-22	2.33	PC3, OVCA-R, HT29
334612			CH22_FGENES.411_11	2.33	OVCA-R, MB-MDA-453, EB
338223			CH22_EM:AC005500.GENSCAN.250-10	2.33	DU145, MB-MDA-453, MCF7
327845			CH.05_hs gi]6531962	2.32	OVCA-R, MB-MDA-453, PC3
308187	AI538108	Hs.156110	Immunoglobulin kappa variable 1D-8	2.32	NCI-H69, NCI-358, PRSC_con
					11011100,1101000,11100_001
31//6/	AW294164	Hs.128340	ESTs; Wealty similar to Cdc42 GTPase-act	2.32	
				2.32	BT474, CALU6, MB-MDA-231
330468	L10343		protease inhibitor 3; skin-derived (SKAL	2.32 2.32	BT474, CALU6, MB-MDA-231 PC3, Cacc2, HT29
330468 319003	L10343 R17712	Hs.112341	protease inhibitor 3; skin-derived (SKAL EST cluster (not in UniGene)	2.32 2.32 2.32	BT474, CALU6, MB-MDA-231 PC3, Cacc2, HT29 MCF7, PC3, MB-MDA-453
330468 319003 323022	L10343 R17712 Al066733	Hs.112341 Hs.133865	protease inhibitor 3; skin-derived (SKAL EST cluster (not in UniGene) ESTs	2.32 2.32 2.32 2.32	BT474, CALU6, MB-MDA-231 PC3, Cacc2, HT29 MCF7, PC3, MB-MDA-453 CALU6, MB-MDA-231, DU145
330468 319003 323022 303148	L10343 R17712 A1066733 R73167	Hs.112341 Hs.133865	protease inhibitor 3; skin-derived (SKAL EST cluster (not in UniGene) ESTs ESTs; Weakly similar to CYTOCHROME P45	2.32 2.32 2.32 2.32 0	BT474, CALU6, MB-MDA-231 PC3, Cacc2, HT29 MCF7, PC3, MB-MDA-453 CALU6, MB-MDA-231, DU145 2.32 NCI-H345, PRSC_can, RPWE-2
330468 319003 323022 303148 303215	L10343 R17712 Al066733 R73167 AW250314	Hs.112341 Hs.133865 Hs.127317	protease inhibitor 3; skin-derived (SKAL EST cluster (not in UniGene) ESTs ESTs; Weakly similar to CYTOCHROME P45 EST	2.32 2.32 2.32 2.32 0 2.32	BT474, CALU6, MB-MDA-231 PC3, Cacc2, HT29 MCF7, PC3, MB-MDA-453 CALU6, MB-MDA-231, DU145 2.32 NCH-1345, PRSC_con, RPWE-2 NCH-1345, PRSC_log
330468 319003 323022 303148 303215	L10343 R17712 A1066733 R73167	Hs.112341 Hs.133865 Hs.127317	protease inhibitor 3; skin-derived (SKAL EST cluster (not in UniGene) ESTs ESTs; Weakly similar to CYTOCHROME P45	2.32 2.32 2.32 2.32 0	BT474, CALU6, MB-MDA-231 PC3, Cacc2, HT29 MCF7, PC3, MB-MDA-453 CALU6, MB-MDA-231, DU145 2.32 NCI-H345, PRSC_can, RPWE-2
330468 319003 323022 303148 303215	L10343 R17712 Al066733 R73167 AW250314	Hs.112341 Hs.133865 Hs.127317	protease inhibitor 3; skin-derived (SKAL EST cluster (not in UniGene) ESTs ESTs; Weakly similar to CYTOCHROME P45 EST	2.32 2.32 2.32 2.32 0 2.32	BT474, CALU6, MB-MDA-231 PC3, Cacc2, HT29 MCF7, PC3, MB-MDA-453 CALU6, MB-MDA-231, DU145 2.32 NCH-1345, PRSC_con, RPWE-2 NCH-1345, PRSC_log
330468 319003 323022 303148 303215 318891	L10343 R17712 Al066733 R73167 AW250314	Hs.112341 Hs.133865 Hs.127317	protesse inhibitor 3; skin-derived (SKAL EST cluster (not in UniGene) ESTs ESTs; Wealdy similar to CYTOCHROME P45 EST ESTs; Wealdy similar to IIII ALU SUBFAMI	2.32 2.32 2.32 2.32 0 2.32 2.32	BT474, CALU6, MB-MDA-231 PC3, Cacc2, HT29 MCF7, PC3, MB-MDA-453 CALU6, MB-MDA-231, DU145 2.32 NCH-345, PRSC_con, RPWE-2 NCH-345, PRSC_con, PRSC_log NCH-69, LnCap, NCH-1345 DU145, EB, LnCap
330468 319003 323022 303148 303215 318891 336653 333329	L10343 R17712 Al066733 R73167 AW250314 H10477	Hs.112341 Hs.133865 Hs.127317 Hs.196208	protesse inhibitor 3; skin-derived (SKAL EST cluster (not in UniGene) ESTs ESTs; Weakly similar to CYTOCHROME P45 EST ESTs; Weakly similar to IIII ALU SUBFAMI CH22_FGENES.33-4 CH22_FGENES.138_22	232 232 232 232 0 232 232 232 232 232	BT474, CALU6, MB-MDA-231 PC3, Cacc2, HT29 MCF7, PC3, MB-MDA-453 CALU6, MB-MDA-231, DU145 2.32 NCH345, PRSC_con, RPWE-2 NCH345, PRSC_log NCH69, LnCap, NCH345 DU145, EB, LnCap DU145, BT474, MB-MDA-231
330468 319003 323022 303148 303215 318891 336653 333329 301980	L10343 R17712 Al066733 R73167 AW250314	Hs.112341 Hs.133865 Hs.127317 Hs.196208	protease inhibitor 3; skin-derived (SKAL EST cluster (not in UniGene) ESTs ESTs; Wealdy similar to CYTOCHROME P45 EST ESTs; Wealdy similar to IIII ALU SUBFAMI CH22_FGENES.33.4 CH22_FGENES.138_22 potassium voltage-gated channet; Shab-re	232 232 232 232 0 232 232 232 232 232 23	BT474, CALU6, MB-MDA-231 PC3, Cacc2, HT29 MCF7, PC3, MB-MDA-453 CALU6, MB-MDA-231, DU145 2.32 NCH-1345, PRSC_con, RPWE-2 NCH-1345, PRSC_con, PRSC_log NCH-169, LnCap, NCH-1345 DU145, EB, LnCap DU145, BT474, MB-MDA-231 NCH-1345, MB-MDA-231, LnCap
330468 319003 323022 303148 303215 318891 336653 333329 301980 336968	L10343 R17712 Al066733 R73167 AW250314 H10477 U69962	Hs.112341 Hs.133865 Hs.127317 Hs.196208	protease inhibitor 3; stdn-derived (SKAL EST cluster (not in UniGene) ESTs ESTs; Wealdy similar to CYTOCHROME P45 EST ESTs; Wealdy similar to IIII ALU SUBFAMI CH22_FGENES.33-4 CH22_FGENES.138_22 potassium voltage-gated channet; Shab-re CH22_FGENES.375-28	232 232 232 0 232 232 232 232 232 232 23	BT474, CALU6, MB-MDA-231 PC3, Cacc2, HT29 MCF7, PC3, MB-MDA-453 CALU6, MB-MDA-231, DU145 2.32 NCH-345, PRSC_con, RPWE-2 NCH-345, PRSC_con, PRSC_log NCH-69, LnCap, NCH-345 DU145, EB, LnCap DU145, BT474, MB-MDA-231 NCH-345, MB-MDA-231, LnCap HT29, BT474, EB
330468 319003 323022 303148 303215 318891 336653 333329 301980 336968 308539	L10343 R17712 Al066733 R73167 AW250314 H10477	Hs.112341 Hs.133865 Hs.127317 Hs.196208	protesse inhibitor 3; skin-derived (SKAL EST cluster (not in UniGene) ESTs Cluster (not in UniGene) ESTs: Weakly similar to CYTOCHROME P45 EST; Weakly similar to IIII ALU SUBFAMI CH22_FGENES.33.4 CH22_FGENES.138_22 potassium voltage-gated channel; Shab-re CH22_FGENES.375-28 EST singleton (not in UniGene) with exon	232 232 232 0 0 232 232 232 232 232 231 231 231	BT474, CALU6, MB-MDA-231 PC3, Cacc2, HT29 MCF7, PC3, MB-MDA-453 CALU6, MB-MDA-231, DU145 2.32 NCH-345, PRSC_con, RPWE-2 NCH-345, PRSC_con, PRSC_log NCH-69, LnCap, NCH-345 DU145, EB, LnCap DU145, BT474, MB-MDA-231 NCH-345, MB-MDA-231, LnCap HT29, BT474, EB NCH-345, NCH-69, PRSC_log
330468 319003 323022 303148 303215 318891 336653 333329 301980 336968 308539 326417	L10343 R17712 Al066733 R73167 AW250314 H10477 U69962	Hs.112341 Hs.133865 Hs.127317 Hs.196208	protesse inhibitor 3; skin-derived (SKAL EST cluster (not in UniGene) ESTs Cluster (not in UniGene) ESTs; Weakly similar to CYTOCHROME P45 EST; Weakly similar to IIII ALU SUBFAMI CH22_FGENES.33-4 CH22_FGENES.138_22 potassium voltage-gated channel; Shab-re CH22_FGENES.375-28 EST singleton (not in UniGene) with exon CH.19_hs glj5867362	232 232 232 232 0 232 232 232 232 231 231 231 231	BT474, CALU6, MB-MDA-231 PC3, Cacc2, HT29 MCF7, PC3, MB-MDA-453 CALU6, MB-MDA-231, DU145 2.32 NCH-345, PRSC_con, PRSC_log NCH-345, PRSC_con, PRSC_log NCH-69, LnCap, NCH-345 DU145, EB, LnCap DU145, BT474, MB-MDA-231 NCH-345, MB-MDA-231, LnCap HT29, BT474, EB NCH-345, NCH-69, PRSC_log HT29, MCF7, BT474
330468 319003 323022 303148 303215 318891 336653 333329 301980 336968 308539 326417 328851	L10343 R17712 Al066733 R73167 AW250314 H10477 U69962	Hs.112341 Hs.133865 Hs.127317 Hs.196208	protesse inhibitor 3; skin-derived (SKAL EST cluster (not in UniGene) ESTs ESTs; Weakly similar to CYTOCHROME P45 EST ESTs; Weakly similar to IIII ALU SUBFAMI CH22_FGENES.33-4 CH22_FGENES.138_22 potassium voltage-gated channel; Shab-re CH22_FGENES.375-28 CH22_FGENES.375-28 CH22_FGENES.375-26 CH29_hs glj5867362 CH.07_hs glj6381923	232 232 232 232 232 232 232 232 231 231	BT474, CALU6, MB-MDA-231 PC3, Cacc2, HT29 MCF7, PC3, MB-MDA-453 CALU6, MB-MDA-231, DU145 2.32 NCH-1345, PRSC_con, RPWE-2 NCH-1345, PRSC_jog NCH-169, LnCap, NCH-1345 DU145, EB, LnCap DU145, EB, LnCap DU145, BT474, MB-MDA-231 NCH-1345, MB-MDA-231, LnCap HT29, BT474, EB NCH-1345, NCH-169, PRSC_jog HT29, MCF7, BT474 NCH-1520, NCH-1460, NCH-123
330468 319003 323022 303148 303215 318891 336653 303399 308539 326417 328851 329254	L10343 R17712 Al066733 R73167 AW250314 H10477 U69962 Al694191	Hs.112341 Hs.133865 Hs.127317 Hs.196208 Hs.121498	protesse inhibitor 3; skin-derived (SKAL EST cluster (not in UniGene) ESTs Cluster (not in UniGene) ESTs; Weakly similar to CYTOCHROME P45 EST; Weakly similar to IIII ALU SUBFAMI CH22_FGENES.33-4 CH22_FGENES.138_22 potassium voltage-gated channel; Shab-re CH22_FGENES.375-28 EST singleton (not in UniGene) with exon CH.19_hs glj5867362	232 232 232 232 0 232 232 232 232 231 231 231 231	BT474, CALU6, MB-MDA-231 PC3, Cacc2, HT29 MCF7, PC3, MB-MDA-453 CALU6, MB-MDA-231, DU145 2.32 NCH-345, PRSC_con, PRSC_log NCH-345, PRSC_con, PRSC_log NCH-69, LnCap, NCH-345 DU145, EB, LnCap DU145, BT474, MB-MDA-231 NCH-345, MB-MDA-231, LnCap HT29, BT474, EB NCH-345, NCH-69, PRSC_log HT29, MCF7, BT474
330468 319003 323022 303148 303215 318891 336653 303399 308539 326417 328851 329254	L10343 R17712 Al066733 R73167 AW250314 H10477 U69962	Hs.112341 Hs.133865 Hs.127317 Hs.196208	protesse inhibitor 3; skin-derived (SKAL EST cluster (not in UniGene) ESTs ESTs; Weakly similar to CYTOCHROME P45 EST; Weakly similar to IIII ALU SUBFAMI CH22_FGENES.33-4 CH22_FGENES.138_22 potassium voltage-gated channel; Shab-re CH22_FGENES.375-28 EST singleton (not in UniGene) with exon CH.19_hs gij5867362 CH.07_hs gij5868733 ESTs	232 232 232 232 232 232 232 232 231 231	BT474, CALU6, MB-MDA-231 PC3, Cacc2, HT29 MCF7, PC3, MB-MDA-453 CALU6, MB-MDA-231, DU145 2.32 NCH-345, PRSC_con, PRSC_log NCH-345, PRSC_con, PRSC_log NCH-69, LnCap, NCH-345 DU145, EB, LnCap DU145, ET 474, MB-MDA-231 NCH-345, MB-MDA-231, LnCap HT29, BT474, EB NCH-345, NCH-69, PRSC_log HT29, MCF7, BT474 NCH-520, NCH-460, NCH-123 RPWE-2, NCH-345, PRSC_con DU145, OVCA-R, EB
330468 319003 323022 303148 303215 318891 336653 303399 308539 326417 328851 329254	L10343 R17712 Al066733 R73167 AW250314 H10477 U69962 Al694191	Hs.112341 Hs.133865 Hs.127317 Hs.196208 Hs.121498	protesse inhibitor 3; skin-derived (SKAL EST cluster (not in UniGene) ESTs ESTs; Weakly similar to CYTOCHROME P45 EST; Weakly similar to IIII ALU SUBFAMI CH22_FGENES.33-4 CH22_FGENES.138_22 potassium voltage-gated channel; Shab-re CH22_FGENES.375-28 EST singleton (not in UniGene) with exon CH.19_hs gij5867362 CH.07_hs gij5868733 ESTs	232 232 232 0 232 232 232 232 232 231 231 231 231 231	BT474, CALU6, MB-MDA-231 PC3, Cacc2, HT29 MCF7, PC3, MB-MDA-453 CALU6, MB-MDA-231, DU145 2.32 NCH:345, PRSC_con, RPWE-2 NCH:345, PRSC_con, RPWE-2 NCH:345, PRSC_log NCH:345, PRSC_log NCH:345, EB, LnCap DU145, EB, LnCap DU145, EB, LnCap HT29, BT474, MB-MDA-231, LnCap HT29, BT474, EB NCH:345, NCH:69, PRSC_log HT29, MCF7, BT474 NCH:520, NCH:460, NCH:23 RPWE-2, NCH:345, PRSC_con
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330468 319003 323022 303215 318891 336653 331329 336968 308539 326417 328653 329254 303075 335131 303129 327067 328064 325965	L10343 R17712 A1066733 R73167 AW250314 H10477 U69962 A1694191  W88779 AA308334	Hs.112341 Hs.133865 Hs.127317 Hs.196208 Hs.121498 Hs.59125	protesse inhibitor 3; skin-derived (SKAL EST cluster (not in UniGene) ESTs ESTs; Weakly similar to CYTOCHROME P45 EST; Weakly similar to IIII ALU SUBFAMI CH22_FGENES.33-4 CH22_FGENES.33-8_22 potassium voltage-gated channet; Shab-re CH22_FGENES.375-28 EST singleton (not in UniGene) with exon CH.19_hs gli5867362 CH.07_hs gli5867362 CH.07_hs gli5867363 ESTs CH22_FGENES.497_15 MUF1 protein CH.21_hs gli5851965 EST cluster (not in UniGene) CH.16_hs gli5867147	232 232 232 0 232 232 232 232 233 231 231 231 231 231	BT474, CALU6, MB-MDA-231 PC3, Cacc2, HT29 MCF7, PC3, MB-MDA-453 CALU6, MB-MDA-231, DU145 2.32 NCH-345, PRSC_con, RPWE-2 NCH-345, PRSC_con, PRSC_log NCH-69, LnCap, NCH-345 DU145, EB, LnCap DU145, EB, LnCap DU145, BT474, MB-MDA-231 NCH-345, MB-MDA-231, LnCap HT29, BT474, EB NCH-345, NCH-69, PRSC_log HT29, MCF7, BT474 NCH-520, NCH-6460, NCH-123 RPWE-2, NCH-1345, PRSC_con DU145, OVCA-R, EB NCH-69, NCH-1345, PRSC_log LnCap, DU145, HT29 NCH-345, NCH-69, MB-MDA-435s DU145, HT29, EB NCH-69, NCH-1345, RPWE-2
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330468 319003 323022 303148 303215 318891 336653 333329 301980 336958 308539 326417 328851 329254 303075 329067 324064 325965 334525 334525 3345654	L10343 R17712 A1066733 R73167 AW250314 H10477 U69962 A1694191  W88779 AA308334 AW137650	Hs.112341 Hs.133865 Hs.127317 Hs.196208 Hs.121498 Hs.59125 Hs.172210	protesse inhibitor 3; skin-derived (SKAL EST cluster (not in UniGene) ESTs ESTs; Wealdy similar to CYTOCHROME P45 EST; Wealdy similar to CYTOCHROME P45 EST; Wealdy similar to IIII ALU SUBFAMI CH22_FGENES.33-4 CH22_FGENES.33-22 potassium voltage-gated channet; Shab-re CH22_FGENES.375-28 EST singlation (not in UniGene) with exon CH.19_hs gli5867362 CH.07_hs gli5868733 ESTs CH22_FGENES.497_15 MUF1 protein CH.21_hs gli5631965 EST CLUster (not in UniGene) CH.16_hs gli5867147 CH22_FGENES.402_4 CH22_FGENES.402_4 CH22_FGENES.402_4	232 232 232 0 232 232 232 232 233 231 231 231 231 231	BT474, CALU6, MB-MDA-231 PC3, Cacc2, HT29 MCF7, PC3, MB-MDA-453 CALU6, MB-MDA-231, DU145 2.32 NCH-345, PRSC_con, RPWE-2 NCH-345, PRSC_con, PRSC_log NCH-69, LnCap, NCH-345 DU145, EB, LnCap DU145, EB, LnCap DU145, BT474, MB-MDA-231 NCH-345, MB-MDA-231, LnCap HT29, BT474, EB NCH-345, NCH-69, PRSC_log HT29, MCF7, BT474 NCH-520, NCH-6460, NCH-123 RPWE-2, NCH-1345, PRSC_con DU145, OVCA-R, EB NCH-69, NCH-1345, PRSC_log LnCap, DU145, HT29 NCH-345, NCH-69, MB-MDA-435s DU145, HT29, EB NCH-69, NCH-1345, RPWE-2
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330468 319003 323022 303148 303215 318891 336653 333329 308539 326417 328851 329254 303075 329131 303129 327067 324064 325965 334525 334525 334525 336554	L10343 R17712 A1066733 R73167 AW250314 H10477 U69962 A1694191  W88779 AA308334 AW137650	Hs.112341 Hs.133865 Hs.127317 Hs.196208 Hs.121498 Hs.59125 Hs.172210	protease inhibitor 3; skin-derived (SKAL EST cluster (not in UniGene) ESTs ESTs; Weakly similar to CYTOCHROME P45 EST; Weakly similar to CYTOCHROME P45 EST; Weakly similar to IIII ALU SUBFAMI CH22_FGENES.33-4 CH22_FGENES.138_22 potassium voltage-gated channet; Shab-re CH22_FGENES.375-28 EST singleton (not in UniGene) with exon CH.19_hs gli5867362 CH.07_hs gli5867362 CH.07_hs gli5868733 ESTs CH22_FGENES.497_15 MUF1 protein CH.21_hs gli5631965 EST Cluster (not in UniGene) CH.16_hs gli5867147 CH22_FGENES.402_4 CH22_FGENES.402_4 CH22_FGENES.34-2 WNT1 Inducible signaling pathway protein	232 232 232 0 0 232 232 232 233 231 231 231 231 231 23 23 23 23 23 23 23 23 23 23 23 23 23	BT474, CALU6, MB-MDA-231 PC3, Cacc2, HT29 MCF7, PC3, MB-MDA-453 CALU6, MB-MDA-231, DU145 2.32 NCH-1345, PRSC_con, RPWE-2 NCH-1345, PRSC_con, PRSC_log NCH-69, LnCap, NCH-1345 DU145, EB, LnCap DU145, BT474, MB-MDA-231 NCH-1345, MB-MDA-231, LnCap HT29, BT474, EB NCH-1345, NCH-69, PRSC_log HT29, MCF7, BT474 NCH-620, NCH-460, NCH-123 RPWE-2, NCH-1345, PRSC_con DU145, OVCA-R, EB NCH-69, NCH-1345, PRSC_log LnCap, DU145, HT29 NCH-1345, NCH-69, MB-MDA-435s DU145, HT29, EB NCH-69, NCH-1345, RPWE-2 NCH-1345, PRSC_con, NCH-69 BT474, PC3, MB-MDA-453 LnCap, CALU6, DU145
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330468 319003 323022 303148 303215 318891 336653 331986 308539 326417 329851 329246 303075 335131 303129 327067 324064 302275 325965 334525 336654 302348 309275 329246 305557 322907 318683 308933 308933 308933 308933 335827 334066	L10343 R17712 A1066733 R73167 AW250314 H10477 U69962 AL694191 W88779 AA308334 AW137650 AF100779 A1989570 AA774834 AA084941 AI703241 AI871416 AI860692	Hs.112341 Hs.133865 Hs.127317 Hs.196208 Hs.121498 Hs.59125 Hs.172210 Hs.172210 Hs.194680 Hs.202653 Hs.119122	protesse inhibitor 3; skin-derived (SKAL EST cluster (not in UniGene) ESTs STs; Wealdy similar to CYTOCHROME P45 EST; Wealdy similar to CYTOCHROME P45 ESTs; Wealdy similar to IIII ALU SUBFAMI CH22_FGENES.33.4 CH22_FGENES.33.4 CH22_FGENES.33.5 22 potassium voltage-gated channel; Shab-re CH22_FGENES.375-28 EST singleton (not in UniGene) with exon CH.19_hs gli5867362 CH.07_hs gli5868733 ESTs CH22_FGENES.497_15 MUF1 protein CH.21_hs gli5851965 EST cluster (not in UniGene) CH.16_hs gli5867447 CH22_FGENES.402_4 CH22_FGENES.442 WNT1 Inducible signaling pathway protein EST singleton (not in UniGene) with exon CH.X_hs gli5868732 EST singleton (not in UniGene) with exon EST cluster (not in UniGene) with exon EST cluster (not in UniGene) with exon EST cluster (not in UniGene) with exon EST singleton (not in UniGene) with exon EST singleton (not in UniGene) with exon EST cluster (not in UniGene) with exon fibosomal protein L13a CH22_FGENES.620_1 CH22_FGENES.327_21	232 232 232 0 232 232 232 233 231 231 231 231 231 23 23 23 23 23 23 23 23 23 23 23 23 23	BT474, CALU6, MB-MDA-231 PC3, Cacc2, HT29 MCF7, PC3, MB-MDA-453 CALU6, MB-MDA-231, DU145 2.32 NCH-1345, PRSC_con, RPWE-2 NCH-1345, PRSC_con, PRSC_log NCH-1345, PRSC_con, NCH-1345 DU145, ET, LnCap DU145, ET, LnCap DU145, BT474, MB-MDA-231 NCH-1345, MB-MDA-231, LnCap HT29, BT474, EB NCH-1345, NCH-169, PRSC_log HT29, MCF7, BT474 NCH-1520, NCH-1450, NCH-123 RPWE-2, NCH-1345, PRSC_con DU145, OVCA-R, EB NCH-169, NCH-1345, PRSC_log LnCap, DU145, HT29 NCH-1345, NCH-169, MB-MDA-435s DU145, HT29, EB NCH-169, NCH-1345, RPWE-2 NCH-1345, PRSC_con, NCH-169 BT474, PC3, MB-MDA-453 LnCap, CALU6, DU145 NCH-160, NCH-1345, RPSC_log CALU6, CALU6, DU145 NCH-160, NCH-1345, PRSC_log CALU6, CALU6, DU145 NCH-169, NCH-1345, NCH-1520 NCH-169, NCH-1345, PRSC_log CALU6, CALU6, MCF7 MB-MDA-231, CALU6, EB NCH-1345, PRSC_con, RPWE-2 CALU6, OVCA-R, EB MB-MDA-435s, MCF7, HT29 PRSC_con, PRSC_log, NCH-1345
330468 319003 323022 303148 303215 318891 336653 3035968 308539 326417 328851 329254 303075 325131 303129 327067 324064 325965 336654 302348 302348 302348 30235 305557 329246 305557 329307 318683 309233 309233 309233 309236 309236 309266 309266 309266	L10343 R17712 A1066733 R73167 AW250314 H10477 U69962 Al694191 W88779 AA308334 AW137650 AF100779 A1989570 AA774834 AA084941 AI703241 AI871416 Al860692	Hs.112341 Hs.133865 Hs.127317 Hs.196208 Hs.121498 Hs.59125 Hs.172210 Hs.194680 Hs.202653 Hs.119122 Hs.220905	protesse inhibitor 3; skin-derived (SKAL EST cluster (not in UniGene) ESTs (Seakly similar to CYTOCHROME P45 EST; Weakly similar to CYTOCHROME P45 EST; Weakly similar to IIII ALU SUBFAMI CH22_FGENES.33-4 CH22_FGENES.33-2 potassium voltage-gated channet; Shab-re CH22_FGENES.375-28 EST singleton (not in UniGene) with exon CH.19_hs gij5867362 CH.07_hs gij5867362 CH.07_hs gij586733 ESTs CH22_FGENES.497_15 MUF1 protein CH.21_hs gij6631965 EST cluster (not in UniGene) CH.16_hs gij5867147 CH22_FGENES.402_4 CH22_FGENES.402_4 CH22_FGENES.402_4 CH22_FGENES.402_EST singleton (not in UniGene) with exon CH.X_hs gij5867147 CH2_FGENES.402_4 CH22_FGENES.402_4 CH22_FGENES.402_5 EST singleton (not in UniGene) with exon CH.X_hs gij5867147 CH.X_hs gij5867147 EST singleton (not in UniGene) with exon CH.X_hs gij5867147 CH22_FGENES.402_4 CH22_FGENES.402_4 CH22_FGENES.402_4 CH22_FGENES.402_5 EST singleton (not in UniGene) with exon ibosomal protein L13a CH22_FGENES.620_1 CH22_FGENES.327_21 ESTs	232 232 232 0 0 232 232 233 231 231 231 231 231 23 23 23 23 23 23 23 23 23 23 23 23 23	BT474, CALU6, MB-MDA-231 PC3, Cacc2, HT29 MCF7, PC3, MB-MDA-453 CALU6, MB-MDA-231, DU145 2.32 NCH-1345, PRSC_con, PRSC_log NCH-1345, PRSC_con, PRSC_log NCH-169, LnCap, NCH-1345 DU145, ET, LnCap DU145, ET, LnCap DU145, BT474, MB-MDA-231 NCH-1345, MB-MDA-231, LnCap HT29, BT474, EB NCH-1345, NCH-169, PRSC_log HT29, MCF7, BT474 NCH-520, NCH-169, PRSC_con DU145, OVCA-R, EB NCH-169, NCH-1345, PRSC_con DU145, HT29 NCH-1345, NCH-169, MB-MDA-435s DU145, HT29, EB NCH-1345, NCH-169, MB-MDA-435s DU145, HT29, EB NCH-1345, PRSC_con, NCH-169 BT474, PC3, MB-MDA-453 LnCap, CALU6, DU145 NCH-169, NCH-1345, PRSC_log CALU6, CALU6, NCH-1520 NCH-169, NCH-1345, PRSC_log CALU6, CALU6, MB-MDA-231, CALU6, EB NCH-1345, PRSC_con, RPWE-2 CALU6, OVCA-R, EB MB-MDA-231, CALU6, EB NCH-1345, PRSC_con, RPWE-2 CALU6, OVCA-R, EB MB-MDA-235, MCF7, HT29 PRSC_con, PRSC_log, RPWE-2 PRSC_con, PRSC_log, NCH-1345 NCH-123, Caco2, CALU6
330468 319003 323022 303148 303215 318891 336653 335986 308539 326417 328851 329254 303075 3234064 325967 324064 305275 334525 336554 305275 329246 305275 329267 318683 309273 335023 308913 3350266 302666 302666 302666 302666 308974	L10343 R17712 A1066733 R73167 AW250314 H10477 U69962 AL694191 W88779 AA308334 AW137650 AF100779 A1989570 AA774834 AA084941 AI703241 AI871416 AI860692	Hs.112341 Hs.133865 Hs.127317 Hs.196208 Hs.121498 Hs.59125 Hs.172210 Hs.194680 Hs.202653 Hs.119122 Hs.220905	protease inhibitor 3; skin-derived (SKAL EST cluster (not in UniGene) ESTS cluster (not in UniGene) ESTS: Wealdy similar to CYTOCHROME P45 EST; Wealdy similar to IIII ALU SUBFAMI CH22_FGENES.33-4 CH22_FGENES.33-4 CH22_FGENES.33-5-28 EST singleton (not in UniGene) with exon CH.19_hs glj5867362 CH.07_hs glj5867362 CH.07_hs glj5867362 CH.27_FGENES.497_15 MUF1 protein CH.21_hs glj6631965 EST cluster (not in UniGene) CH.21_hs glj6631965 EST cluster (not in UniGene) CH.22_FGENES.497_15 MUF1 protein CH.21_hs glj6631965 EST cluster (not in UniGene) CH.16_hs glj5867147 CH22_FGENES.402_4 CH22_FGENES.402_4 CH22_FGENES.402_4 CH22_FGENES.402_5 EST singleton (not in UniGene) with exon CH.X_hs glj5868732 EST singleton (not in UniGene) with exon EST cluster (not in UniGene) with exon EST singleton (not in UniGene) with exon thosomal protein L13a CH22_FGENES.327_21 ESTs immunoglobulin gamma 3 (Gm marker)	232 232 232 0 232 232 232 233 231 231 231 231 231 23 23 23 23 23 23 23 23 23 23 23 23 23	BT474, CALU6, MB-MDA-231 PC3, Cacc2, HT29 MCF7, PC3, MB-MDA-453 CALU6, MB-MDA-231, DU145 2.32 NCH345, PRSC_con, RPWE-2 NCH345, PRSC_con, RPWE-2 NCH345, PRSC_con, PRSC_log NCH69, LnCap, NCH345 DU145, EB, LnCap DU145, BT474, MB-MDA-231 NCH345, MB-MDA-231, LnCap HT29, BT474, EB NCH345, NCH69, PRSC_log HT29, MCF7, BT474 NCH520, NCH460, NCH23 RPWE-2, NCH345, PRSC_con DU145, OVCA-R, EB NCH69, NCH345, PRSC_log LnCap, DU145, HT29 NCH345, NCH69, MB-MDA-435s DU145, HT29, EB NCH345, NCH69, MB-MDA-435s DU145, HT29, EB NCH345, NCH69, NCH69 BT474, PC3, MB-MDA-453 LnCap, CALU6, DU145 NCH69, NCH345, PRSC_log CALU6, NCH23, NCH520 NCH69, NCH345, PRSC_log CALU6, CALU6, MCF7 MB-MDA-231, CALU6, EB NCH345, PRSC_con, RPWE-2 CALU6, OVCA-R, EB MB-MDA-435s, MCF7, HT29 PRSC_con, PRSC_log, RPWE-2 PRSC_con, PRSC_log, RPWE-2 PRSC_con, PRSC_log, RPWE-2 PRSC_con, PRSC_log, RPWE-2 PRSC_CON, PRSC_log, NCH345 NCH23, Caco2, CALU6 CALU6, A549, NCH69
330468 319003 323022 303148 303215 318891 336653 3035968 308539 326417 328851 329254 303075 325131 303129 327067 324064 325965 336654 302348 302348 302348 30235 305557 329246 305557 329307 318683 309233 309233 309233 309236 309236 309266 309266 309266	L10343 R17712 A1066733 R73167 AW250314 H10477 U69962 Al694191 W88779 AA308334 AW137650 AF100779 A1989570 AA774834 AA084941 AI703241 AI871416 Al860692	Hs.112341 Hs.133865 Hs.127317 Hs.196208 Hs.121498 Hs.59125 Hs.172210 Hs.194680 Hs.202653 Hs.119122 Hs.220905	protesse inhibitor 3; skin-derived (SKAL EST cluster (not in UniGene) ESTs (Seakly similar to CYTOCHROME P45 EST; Weakly similar to CYTOCHROME P45 EST; Weakly similar to IIII ALU SUBFAMI CH22_FGENES.33-4 CH22_FGENES.33-2 potassium voltage-gated channet; Shab-re CH22_FGENES.375-28 EST singleton (not in UniGene) with exon CH.19_hs gij5867362 CH.07_hs gij5867362 CH.07_hs gij586733 ESTs CH22_FGENES.497_15 MUF1 protein CH.21_hs gij6631965 EST cluster (not in UniGene) CH.16_hs gij5867147 CH22_FGENES.402_4 CH22_FGENES.402_4 CH22_FGENES.402_4 CH22_FGENES.402_EST singleton (not in UniGene) with exon CH.X_hs gij5867147 CH2_FGENES.402_4 CH22_FGENES.402_4 CH22_FGENES.402_5 EST singleton (not in UniGene) with exon CH.X_hs gij5867147 CH.X_hs gij5867147 EST singleton (not in UniGene) with exon CH.X_hs gij5867147 CH22_FGENES.402_4 CH22_FGENES.402_4 CH22_FGENES.402_4 CH22_FGENES.402_5 EST singleton (not in UniGene) with exon ibosomal protein L13a CH22_FGENES.620_1 CH22_FGENES.327_21 ESTs	232 232 232 0 0 232 232 233 231 231 231 231 231 23 23 23 23 23 23 23 23 23 23 23 23 23	BT474, CALU6, MB-MDA-231 PC3, Cacc2, HT29 MCF7, PC3, MB-MDA-453 CALU6, MB-MDA-231, DU145 2.32 NCH-1345, PRSC_con, PRSC_log NCH-1345, PRSC_con, PRSC_log NCH-169, LnCap, NCH-1345 DU145, ET, LnCap DU145, ET, LnCap DU145, BT474, MB-MDA-231 NCH-1345, MB-MDA-231, LnCap HT29, BT474, EB NCH-1345, NCH-169, PRSC_log HT29, MCF7, BT474 NCH-520, NCH-169, PRSC_con DU145, OVCA-R, EB NCH-169, NCH-1345, PRSC_con DU145, HT29 NCH-1345, NCH-169, MB-MDA-435s DU145, HT29, EB NCH-1345, NCH-169, MB-MDA-435s DU145, HT29, EB NCH-1345, PRSC_con, NCH-169 BT474, PC3, MB-MDA-453 LnCap, CALU6, DU145 NCH-169, NCH-1345, PRSC_log CALU6, CALU6, NCH-1520 NCH-169, NCH-1345, PRSC_log CALU6, CALU6, MB-MDA-231, CALU6, EB NCH-1345, PRSC_con, RPWE-2 CALU6, OVCA-R, EB MB-MDA-231, CALU6, EB NCH-1345, PRSC_con, RPWE-2 CALU6, OVCA-R, EB MB-MDA-235, MCF7, HT29 PRSC_con, PRSC_log, RPWE-2 PRSC_con, PRSC_log, NCH-1345 NCH-123, Caco2, CALU6

335174			CH22_FGENES.504_4 ·	9.00	UTTO AEAD MED MEDA AES
	A A Appropri	Un 424400	ESTs; Weakly similar to Danip homotog [H	2.29	HT29, A549, MB-MDA-453
	MAH03000	TIS. 139400		2.29	EB, A549, DU145
336417	*****		CH22_FGENES.823_39	2.29	NCHH69, NCHH345, PRSC_log
	AA251401		EST cluster (not in UniGene)	2.29	HT29, MB-MDA-231, BT474
336618			CH22_FGENES.2-1	2.29	NCI-358, NCI-H460, NCI-H69
	AI188739	Hs.148488		2.29	NCH1345, PRSC_log, PRSC_con
334055			CH22_FGENES.327_6	2.28	DU145, OVCA-R, MB-MDA-453
337168			CH22_FGENES.562-28	2.28	NCI-H69, PRSC_log, NCI-H345
329824			CH_14_p2 gf[6630758	2.28	NCH123, CALUS, RPWE-2
333891			CH22_FGENES.292_13	2.28	NCHH69, MB-MDA-231, RPWE-2
339127			CH22_DA59H18.GENSCAN.55-1	2.28	PRSC_con, NCI-H345, RPWE-2
305686	AA812726		EST singleton (not in UniGene) with exon	2.28	NCHH520, NCHH23, NCHH460
329782			CH.14_p2 gli5912597	2.28	NCHH69, NCHH345, PRSC_log
311059	Al810001	Hs.175346	ESTs	2.28	MCF7, BT474, MB-MDA-435s
336934			CH22_FGENES.351-1	2.28	BT474, HT29, MB-MDA-435s
314893	AA761093		EST cluster (not in UniGene)	2.28	OVCA-R. HT29, DU145
331596	N72574	Hs.50220	ESTs	2.28	A549, MCF7, NCI-358
330729	AA258559	Hs.3736	ESTs: Weakly similar to DELTA-LIKE PROTE		MB-MDA-231, CALU6, MCF7
338285			CH22_EM:AC005500.GENSCAN.293-3	2.27	NCI-H69, PRSC_log, PRSC_con
	Al245127	Hs.179331		2.27	NCI-H23, NCI-H520, NCI-358
			ribosomai protein L29	2.27	RPWE-2, NCI-H345, PRSC_log
	A1884454	1 100000	EST singleton (not in UniGene) with exon	227	A549, MCF7, BT474
332995	7400 1401		CH22_FGENES.58_2	2.27	RPWE-2, NCI-H345, PRSC_log
337426			CH22_FGENES.761-3	2.27	DU145, EB, CALU6
337778			CH22_EM*AC000097.GENSCAN.119-20	227	NCI-H69, PRSC_con, PRSC_log
329705				227	
335971			CH.14_p2 gij6065790		PRSC_con, PRSC_log, RPWE-2
	AIGTED &C	Lin 492000	CH22_FGENES.652_4	2.27	PRSC_log, MB-MDA-231, NCI-H23
	Al075846	Hs.133996		2.27	HT29, MB-MDA-435s, OVCA-R
334430	Al911204	Hs.126365		2.27	NCI-H460, NCI-358, BT474
	4.4.4.500	11- 00000	CH22_FGENES.385_3	2.27	NCH1345, NCH169, PRSC_con
	AA452257			2.26	PRSC_con, LnCap, PRSC_log
	AW269804			2.26	NCH1345, PRSC_log, NCH1520
	Al935024	HS.190518		2.26	NCI-H345, PRSC_con, PRSC_log
	AA928363		EST singleton (not in UniGene) with exon	2.26	NCH1345, PRSC_con, PRSC_log
	H54627		EST singleton (not in UniGene) with exon	2.26	DU145, CALU6, PC3
335421			CH22_FGENES.551_1	2.26	NCHH69, PRSC_con, PRSC_log
		Hs.156110	Immunoglobulin kappa variable 1D-8	2.26	NCHH345, NCHH69, PRSC_con
	AA421129		EST	2.26	CALUS, OVCA-R, CU145
	A1004985	Hs.130607		2.26	PC3, MB MDA-435s, A549
325304			CH.11_hs g1 5866910	2.26	MCF7, CALU6, A549
334118			CH22_FGENES.330_19	2.26	PRSC_con, NCI-H69, PRSC_log
335687			CH22_FGENES.596_2	2.26	A549, CALU6, LnCap
334035			CH22_FGENES.322_3	2.26	NCI-H345, PRSC_con, RPWE-2
305454	AA738413		EST singleton (not in UniGene) with exon	2.25	EB, HT29, CALU6
335902			CH22_FGENES.635_10	2.25	EB, DU145, HT29
339215			CH22_FF113D11.GENSCAN.6-10	2.25	PRSC_con, PRSC_log, RPWE-2
328810			CH.07_hs gi[5868327	2.25	PC3, OVCA-R, MB-MDA-453
337396			CH22_FGENES.749-1	2.25	EB, A549, DU145
336808			CH22_FGENES.205-3	2.25	NCHH345, NCHH69, PRSC_con
305808	AA853958		EST singleton (not in UniGene) with exon	2.24	MB-MDA-453, DU145, EB
333571			CH22_FGENES.188_2	2.24	MCF7, MB-MDA-453, PC3
323023	AA225188	Hs.258539	ESTs	2.24	EB, DU145, CALU6
334626			CH22_FGENES.416_2	2.24	NCI-H69, NCI-H345, PRSC_log
333593			CH22_FGENES.210_2	2.24	NCHH69, NCHH345, PRSC_con
326708			CH.20_hs gl\$5867593	2.24	NCH460, NCH23, NCH520
314502	AI041717	Hs.132141	ESTs	2.23	NCI-H345, RPWE-2, PRSC_con
309181	Al951727		EST singleton (not in UniGene) with exon	2.23	PRSC_con, PC3, MB-MDA-231
324926	H56196	Hs.117798		2.23	EB, EB, DU145
333632			CH22_FGENES.227_3	2.23	CALU6, CALU6, MB-MDA-453
328243			CH.06_hs g#6056292	2.23	PC3, LnCap, LnCap
327037			CH.21_hs qii6531965	2.23	LnCap, DU145, EB
	Al222985		EST singleton (not in UniGene) with exon	2.23	NCHH345, PRSC_con, PRSC_log
334766			CH22_FGENES.428_15		PRSC_log, NCH+345, RPWE-2
335236			CH22_FGENES.515_8	2.23	OVCA-R, MCF7, BT474
336615			CH22_FGENES.613_5	2.23	NCHH69, PRSC_log, PRSC_con
	Al281998		EST singleton (not in UniGene) with exon	2.23	DU145, OVCA-R, CALU6
	A457115	Hs.62954	ferrilin; heavy polypeptide 1	223	EB. OVCA-R, MB-MDA-453
331508		Hs.46732	EST PARTY PA	2.23	MB-MDA-453, MCF7, BT474
330080	A)237672		5;10-methylenetetrahydrofolate reductase		OVCA-R. EB, EB
	AA010976	- NAC 17 17E	EST singleton (not in UniGene) with exon	2.23	BT474, MB-MDA-435s, MB-MDA-231
		He 179772	ESTs, Weakly similar to IIII ALU SUBFAMI	2.23	MB-MDA-231, MCF7, OVCA-R
	Al624301	110-110440	EST chalche fort in the care with annu	2.22 2.22	OVCA-R, BT474, CALU6
	AW207857	He 40000A	EST singleton (not in UniGene) with exon		
	A11201001	112,103004		2.22	DU145, EB, A549 NCHH69, PRSC_log, PRSC_con
327864			CH.06_hs gi5868130	2.22	NCHH345, NCHH69, PRSC_con
337279	AA325517		CH22_FGENES.665-2	2.22	
302203	rruc301/		EST	2.22	BT474, NCI-H520, DU145

322840	AA083710		EST cluster (not in UniGene)	2.22	HT29, MB-MDA-453, CALU6
	Al283549		EST singleton (not in UniGene) with exon	2.22	OVCA-R, CALU6, BT474
	AA716612		EST cluster (not in UniGene)	2.22	LnCap, NCI-H69, NCI-H69
	AA877883		EST singleton (not in UniGene) with exon	2.22	NCI-H345, NCI-H69, NCI-H69
329725	AUMOOFOO	I I - OFF	CH.14_p2 gf[6065785	2.22	NCI-H69, PRSC_can, NCI-H345
	AW298529	MS.255//4		2.22 2.22	CALU6, EB, NCI-H520
333815	AF142579		CH22_FGENES.282_4	2.22	A549, OVCA-R, EB MB-MDA-435s, EB, MB-MDA-453
334358			CH22_FGENES.378_1	2.22	NCH345, RPWE-2, PRSC_con
	AF043250	Hs.30928	DNA segment on chromosome 19 (unique) 11		Caco2, NCI-H23, NCI-H520
335593			CH22_FGENES.581_32	2.21	NCH1345, PRSC_log, RPWE-2
334026			CH22_FGENES.318_3	2.21	NCHH69, PRSC_con, NCHH345
322224	AF086064		EST cluster (not in UniGene)	2.21	PRSC_con, PRSC_log, RPWE-2
	AW295497	Hs.157397		2.21	NCH1345, PRSC_con, RPWE-2
	M33374	Hs.661	NADH dehydrogenase (ubiquinone) 1 beta s		NCI-H520, CALU6, OVCA-R
	Al300246		EST singleton (not in UniGene) with exon	2.21	MB-MDA-231, MB-MDA-453, HT29
	T87841		EST	2.21	PC3, EB, CALU6
330064			CH.19_p2 gij6165044	2.21	NCI-H69, PRSC_con, BT474
338819			CH22_DJ246D7.GENSCAN.1-24	2.21	NCHH69, RPWE-2, PRSC_log
337797 328025			CH22_EM:AC005500.GENSCAN.3-4 CH.06_hs gij5902482	2.21 2.2	LnCap, NCI-H69, NCI-H520 RPWE-2, PRSC_con, PRSC_log
326240			CH.17_hs gij5867260	2.2	EB, LnCap, MB-MDA-453
	AW005376	Hs.173280		2.2	DU145, DU145, OVCA-R
338450			CH22 EM:AC005500.GENSCAN.359-36	2.2	MCF7, MB-MDA-453, MB-MDA-435s
	U60181	Hs.248115	growth hormone secretagogue receptor	2.2	PRSC_con, PRSC_log, PRSC_log
	AA081495		EST cluster (not in UniGene)	2.2	NCI-H23, NCI-H520, NCI-358
337787			CH22_EM:AC000097.GENSCAN.123-3	2.2	EB, PC3, LnCap
337032			CH22_FGENES.438-3	2.2 .	NCI-H69, NCI-H345, RPWE-2
	M11507		AFFX control: transferrin receptor	2.2	HT29, EB, MB-MDA-231
333139			CH22_FGENES.83_16	2.2	HT29, MB-MDA-453, Caco2
334298			CH22_FGENES.372_4	2.2	PRSC_con, PRSC_log, RPWE-2
335002			CH22_FGENES.470_7	2.2	PRSC_con, NCI-H345, NCI-H345
335000 337298			CH22_FGENES.470_5 CH22_FGENES.678-3	2.2 2.2	EB, PC3, A549 NC1+169, A549, HT29
	AF104253	Hs 241381	cofactor required for Sp1 transcriptiona	2.2	EB, CALU6, LnCap
334819	74 10-1250	TOLL TIOU	CH22_FGENES.436_15	2.19	CALU6, BT474, Caco2
	AW452660	Hs.253298		2.19	DU145, CALU6, HT29
	AC004472		multiple UniGene matches	2.19	RPWE-2, PRSC_log, PRSC_con
339401			CH22_BA232E17.GENSCAN.7-7	2.19	NCI-H345, NCI-H69, PRSC_log
328791			CH.07_hs gij5868309	2.19	DU145, PC3, HT29
337333			CH22_FGENES.711-3	2.19	NCI-H69, NCI-H345, PRSC_log
339363			CH22_BA354I12.GENSCAN.33-6	2.19	NCH469, PRSC_log, PRSC_con
329429			CH.Y_hs gij5868882	2.19	CALU6, HT29, OVCA-R
336927 336351			CH22_FGENES.348-3 CH22_FGENES.816_3	2.19 2.19	NCI-H69, PRSC_log, NCI-358 DU145, EB, MB-MDA-231
	AA004731	Hs. 14RR76		2.19	CALU6, DU145, OVCA-R
	Al244895	1101110070	EST singleton (not in UniGene) with exon	2.19	NCI-H23, NCI-H23, NCI-358
336590			CH22_FGENES.51_2	2.19	PRSC_con, NCI-H69, PRSC_log
310758	A1770001	Hs.209445		2.18	EB, MB-MDA-231, BT474
327823			CH.05_hs gij5867968	2.18	PRSC_con, NCI-H69, NCI-H345
	N92638		EST cluster (not in UniGene)	2.18	PRSC_log, RPWE-2, PRSC_con
335377	11.010004		CH22_FGENES.543_17	2.18	PC3, MB-MDA-435s, CALU6
	AL042931	U- 400000	EST singleton (not in UniGene) with exon	2.18	NCH1345, RPWE-2, PRSC_con LnCan, PC3, MB-MDA-435s
335201	APU04094	NS. 1200,00	phospholipase A2; group VI CH22_FGENES.508_10	2.18 2.18	OVCA-R, DU145, HT29
338591			CH22_EM:AC005500.GENSCAN.434-4	2.18	NCI-H69, NCI-H345, RPWE-2
	AA455960	Hs. 99405		2.18	MCF7, NCI-H23, NCI-H460
337218	701.000,00	110100 100	CH22_FGENES.614-2	2.18	CALUB, A549, MCF7
	AW118833		EST singleton (not in UniGene) with exon	2.18	PC3, EB, MB-MDA-435s
331896	AA435495	Hs.97174	H sapiens mRNA; cDNA DKFZp566E164 (from	n	2.18 RPWE-2, NCI-H69, PRSC_log
330275			CH.05_p2 gi]6671904	2.18	NCH1345, PRSC_log, PRSC_con
335817			CH22_FGENES.618_5		A549, Caco2, PC3
332896	1.00-000		CH22_FGENES.35_10	2.18	NCI-H345, RPWE-2, PRSC_log
	AA205300		EST .	2.17	MB-MDA-435s, A549, MCF7
338703	AMMEDAA	Un 200420	CH22_EM:AC005500.GENSCAN.480-2	2.17	HT29, BT474, NCI-H69
	A1215044 H22466	Hs.208130 Hs.31795		2.17	PC3, OVCA-R, HT29 MCF7, EB, MB-MDA-435s
	AW105092			2.17 2.17	MB-MDA-453, DU145, EB
329078		100000	CH.X_hs gli5868597	2.17	MB-MDA-453, MB-MDA-231, BT474
	Al222630	Hs.109390		2.17	NCHH520, OVCA-R, MCF7
	AI052795	Hs.192201		2.17	NCI-H69, NCI-H345, PRSC_log
	AA484435		alpha-1-B glycoprotein	2.17	PRSC_con, LnCap, PRSC_log
329097			CH.X_hs gij5868624	2.16	MB-MDA-231, MCF7, NCI-358
328328			CH.07_hs gij5868375	2.16	NCHH345, PRSC_con, NCHH69
	AA522440	Hs.135917		2.16	BT474, DU145, A549
329201			CH.X_hs g1 5868718	2.16	OVCA-R, PC3, MB-MDA-435s

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329902			CH.15_p2g16634760	2.16	PRSC_con, NCI-H59, NCI-H345
334435			CH22_FGENES.385_10	2.16	PRSC_can, NCH+345, RPWE-2
330742	AA400979	Hs.25691	calcilonin receptor-like receptor activi	2.16	MCF7, MB-MDA-453, PC3
328484			CH.07_hs gi[5868454	2.16	NCHH69, PRSC_log, NCHH345
334784			CH22_FGENES.432_9	2.16	PRSC_log, RPWE-2, PRSC_con
337771			CH22_EM:AC000097.GENSCAN.119-10		
	AMOJNEE	LI- 4ETECO		216	NCH469, PRSC_con, RPWE-2
	Al284955	US' 12/ 200	ESTs; Wealdy similar to ataxin-2 [M.musc	2.16	DU145, EB, CALU6
	Al539446			2.16	PRSC_con, RPWE-2, PRSC_log
309575	AW168096	Hs.195188	glyceraldehyde-3-phosphate dehydrogenase	2.16	A549, NCI-H23, MB-MDA-453
336548			CH22_FGENES.841_5	2.16	NCI-H345, NCI-H69, MB-MDA-231
328506			CH.07_hs gli5868471	2.16	EB, A549, CALU6
330189			CH.05_p2gl6165182	2.16	NCH460, MCF7, MB-MDA-453
	AA746500	He 25011	HLA-B associated transcript-2	2.16	EB, DU145, NCI-358
	R56151	1222	EST STATE OF THE PROPERTY OF T		
				2.16	OVCA-R, MB-MDA-435s, PRSC_con
	AI004899		EST singleton (not in UniGene) with exon	2.16	PRSC_log, PRSC_com, NCI-H345
325887			CH.16_hs gl[5867087	2.16	EB, CALUE, NC1-358
327015			CH.21_hs gl 5867664	2.15	EB, PC3, HT29
338576			CH22_EM:AC005500.GENSCAN.429-1	2.15	NCI-H69, NCI-H345, PRSC_con
333592			CH22_FGENES.209_2	2.15	NCHH69, OVCA-R, PRSC_con
317253	AW071241	Hs.199685	ESTs	2.15	MB-MDA-435s, NCI-H23, MB-MDA-453
302301	R67493	Hs.127150	ESTs; Wealty similar to ZINC FINGER PROT		PC3, MCF7, MB-MDA-435s
336858			CH22_FGENES.293-8	2.15	
	A1640693	Hs.2186			RPWE-2, PRSC_con, NCI-H69
	AIDHUUSS	113.2100	eukaryotic translation elongation factor	2.15	EB, OVCA-R, CALU5
338177			CH22_EM:AC005500.GENSCAN.219-5	2.15	NCI-H345, NCI-H23, NCI-H520
337592			CH22_C20H12.GENSCAN.6-7	2.15	PC3, A549, HT29
325945			CH.16_hs gi[5867138	2.15	MB-MDA-453, MB-MDA-435s, DU145
335262			CH22_FGENES.520_3	2.15	EB, PC3, A549
333665			CH22_FGENES.244_1	2.15	PRSC_con, RPWE-2, PRSC_log
333710			CH22_FGENES.250_25	2.14	PRSC_log, NCI-H69, PRSC_con
	AA604728	Hs 195188		2.14	LnCap, PC3, MCF7
336999			CH22_FGENES.417-20	2.14	
	W32480	Hs.157099			NCH169, NCH1345, PRSC_con
		HS. 13/ USS		2.14	EB, MB-MDA-231, A549
	AA928686		EST singleton (not in UniGene) with exon	2.14	NCI-H460, PRSC_con, NCI-H23
333205			CH22_FGENES.102_5	2.14	NCHH69, PRSC_con, PRSC_log
	A1804218	Hs.209614	ESTS	2.14	PRSC_con, NCI+H345, RPWE-2
328938			CH.08_hs gi[5868500	2.14	HT29, PC3, MB-MDA-453
326746			CH.20_hs gij5867611	2.14	NCI-H345, NCI-H69, PRSC_con
337964			CH22_EM:AC005500.GENSCAN.100-9	2.14	RPWE-2, PRSC_can, PRSC_log
337984			CH22_EM:AC005500.GENSCAN.110-2	2.14	EB, DU145, NCH+345
337704			CH22_EM:AC000097.GENSCAN.87-6	2.14	NCI-H69, NCI-H460, NCI-358
	AF119046		EST	2.14	
	AA081755	Ho goed			MB-MDA-435s, PC3, EB
		113.0003	ESTs; Highly similar to SYNAPTOTAGMIN IV		MB-MDA-435s, MB-MDA-435s, MB-MDA-453
	AA926816	11-04000	EST singleton (not in UniGene) with exon	2.14	MB-MDA-453, CALU6, DU145
	AW515979	MS.84298	CD74 antigen (invariant polypptd of majo	2.14	LnCap, MB-MDA-231, BT474
325409			CH.12_hs gip5866921	2.14	PRSC_log, PRSC_con, RPWE-2
308558	A1700145	Hs.172182	poly(A)-binding protein; cytoplasmic 1	2.14	MCF7, EB, MB-MDA-435s
302185	AA243837	Hs.156915	ESTs	2.14	MB-MDA-453, MCF7, EB
303021	W39612		EST	2.14	PRSC_con, NCHH69, RPWE-2
301005	AW451916	Hs.210848	ESTs	2.14	DU145, EB, HT29
336029			CH22_FGENES.672_4	2.14	NCI-H69, PRSC_con, RPWE-2
	AA736653			2.14	NCI-358, NCI-H520, NCI-H23
335485			CH22_FGENES.570_17	2.13	
	AA584712				NCI-H460, MB-MDA-435s, MCF7
			EST singleton (not in UniGene) with exon	2.13	MCF7, MCF7, NCI-H520
	AW298760			2.13	NCI-HS9, PRSC_con, LnCap
326206	A A 407400	11- 400		2.13	EB, MB-MDA-231, LnCap
	AA437189	HS.1225/4		213	LnCap, MB-MDA-435s, EB
334745				2.13	OVCA-R, DU145, MB-MDA-453
318504	T26453		EST cluster (not in UniGene)	2.13	RPWE-2, LnCap, CALU6
306839	A1077385			2.13	MCF7, MB-MDA-453, MB-MDA-4359
303843	W94322	Hs.58094		2.13	MB-MDA-435s, NCI-H345, RPWE-2
308444	A1659398			2.13	MB-MDA-453, MCF7, BT474
	AW448965			2.13 2.13	NCHH345, LnCap, PC3
326997	*****	1 IOLEDOOO			
326793					HT29, A549, CALU6
	U4240E			2.13	PRSC_log, PRSC_con, MB-MDA-453
	H12405	11. 40000		2.12	MB-MDA-231, BT474, HT29
	AW206279	HS.192009		2.12	DU145, DU145, EB
335371				2.12	PC3, MB-MDA-435s, DU145
301178	AA828385		EST	2.12	EB, OVCA-R, LnCap
326136				2.12	RPWE-2, PRSC_log, PRSC_con
339213		•		2.12	OVCA-R, PC3, MB-MDA-231
335980			01100 man Tan and		BT474, BT474, OVCA-R
	AA758797				
					PRSC_con, PRSC_log, RPWE-2
- m #1// / 3	VIUV 13M2		The Authoritan Coll III College Coll with Aven	211	NCH1345, PRSC_con, PRSC_log .
	AI041302				
335774	AI041302		CH22_FGENES.607_10	2.11	PC3, A549, MB-MDA-453
335774 334914			CH22_FGENES.607_10 CH22_FGENES.457_3	2.11 2.11	PC3, A549, MB-MDA-453 PRSC_con, NCI-H345, NCI-H59
335774 334914			CH22_FGENES.607_10 CH22_FGENES.457_3	211 211	PC3, A549, MB-MDA-453

303358	AJ199714	Hs.158149	ESTs	2.11	CALU6, OVCA-R, DU145
	AA994743	1,02,000,10	EST singleton (not in UniGene) with exon	2.11	HT29, MB-MDA-453, CALU6
337781			CH22_EM:AC000097.GENSCAN.121-3	2.11	PRSC_log, PRSC_con, RPWE-2
333140			CH22_FGENES.84_1	2.11	HT29, NCHH69, OVCA-R
315081	Al247134	Hs.155281	ESTs	2.11	MB-MDA-453, MCF7, HT29
	AA446441	Hs.138842		2.11	NCI-358, NCI-H23, CALUS
	N83965		EST	2.11	PRSC_log, PRSC_con, NCH1345
	D83824	Hs.185055	BENE protein	2.11	A549, PC3, HT29
	AA565332		EST cluster (not in UniGene)	2.11	A549, CALU6, EB
326418	A1702400	D- 4044CC	CH.19_hs gl 5867365	2.1	EB, OVCA-R, DU145
	AI783498	Hs.84359	eukaryotic translation elongation factor hypothetical protein	2.1 2.1	MB-MDA-435s, MB-MDA-453, DU145 NCI-H23, A549, DU145
333283	C01852	H204003	CH22_FGENES.128_13	2.1	NCI-H345, RPWE-2, PRSC_con
328636			CH.07_hs gij6004473	21	DU145, EB, MB-MDA-453
329187			CHX_hs glj5868713	21	NCI-358, NCI-H23, NCI-H460
	AA889603		EST singleton (not in UniGene) with exon	2.1	HT29, OVCA-R, PC3
333220			CH22_FGENES.104_12	2.1	PRSC_con, PRSC_log, RPWE-2
335092			CH22_FGENES.492_2	2.1	NCHH69, PRSC_con, NCHH345
	AA599355		EST singleton (not in UniGene) with exon	2.1	DU145, EB, MCF7
325359			CH.12_hs gij5866920	21	MB-MDA-453, EB, MB-MDA-435s
	H08730	Hs.6933	ESTS	2.1	NCI-H520, PRSC_con, NCI-H345
	AW449315	HS.165/95		2.1	OVCA-R, A549, LnCap
333619	ANDERSON		CH22_FGENES.219_3	2.1 2.09	BT474, OVCA-R, HT29 CALU6, A549, DU145
	AW502979 AA308601		EST cluster (not in UniGene) EST	2.09	DU145, CALU6, NCHH69
328570	NAMOOOO I		CH.07_hs gij5868231	2.09	LnCap, MB-MDA-231, DU145
	AI871218	Hs.224731		2.09	NCI-H23, NCI-H460, NCI-358
	K02268	Hs.22584	prodynorphin	2.09	PC3, BT474, MB-MDA-453
334793		.,	CH22 FGENES.433.5	2.09	EB, DU145, LnCap
	AA618335	Hs.146137	ESTs; Wealdy similar to putative [C.eleg	2.09	NCI-H345, PRSC_log, PRSC_con
309656	AW197060	Hs.195188	glyceraldehyde-3-phosphate dehydroganase	2.09	A549, NCI-H23, NCI-H460
320963	AB029041	Hs.209646	KIAA1118 protein	2.09	PRSC_con, PRSC_log, NCI-H345
	AW295351	Hs.169136		2.09	PC3, LnCap, MB-MDA-453
335693			CH22_FGENES.596_8	2.09	NCHH69, LnCap, PRSC_log
325966			CH.16_hs gl 5867147	2.09	MCF7, CALU6, MB-MDA-453
329319			CH.X_hs gij6381976 CH22_EM:AC005500.GENSCAN.396-14	2.09 2.09	NCI-H460, EB, DU145
338526 336751			CH22_FGENES.128-5	2.09	NCI-H69, NCI-H345, PRSC_log NCI-H69, NCI-H345, PRSC_log
325510			CH.12_hs gij5866974	2.09	HT29, OVCA-R, CALUS
	AA292626	Hs.122854		2.08	NCI-H345, RPWE-2, NCI-358
326343			CH.17_hs gij6525295	2.08	EB, LnCap, DU145
335470			CH22_FGENES.568_3	2.08	NCI-H69, PRSC_con, PRSC_log
320122	T93681	Hs.187515	ESTs	2.08	MCF7, MB-MDA-453, BT474
335320			CH22_FGENES.534_7	2.08	BT474, MB-MDA-231, HT29
	A1184343		EST singleton (not in UniGene) with exon	2.08	HT29, MCF7, PC3
338080	*1055050	11- 400000	CH22_EM:AC005500.GENSCAN.172-11	2.08	LnCap, PC3, HT29
	A1056258	Hs.122523	CH22_EM:AC000097.GENSCAN.77-1	2.08	MCF7, DU145, MB-MDA-453
337685 327461			CH.02_hs gli6004455	2.08 2.08	NCI-H69, NCI-H345, PRSC_log NCI-H23, BT474, NCI-358
335895			CH22_FGENES.635_3	2.08	HT29, MB-MDA-231, NCI-H520
	AW471472		EST singleton (not in UniGene) with exon	2.08	MB-MDA-231, BT474, NCI-H345
			ESTs; Weakly similar to MYOSIN LIGHT CHA		,,_ ,,_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			NON-MUSCLE ISOZYMES [H.sapiens]	2.08	PC3, A549, BT474
302722	U53530		EST	2.08	DU145, MB-MDA-435s, OVCA-R
	Al318588		EST singleton (not in UniGene) with exon	2.08	HT29, MB-MDA-435s, CALU6
	Al334965	Hs.176976		2.08	A549, LnCap, PC3
	AA860090		EST cluster (not in UniGene)	2.08	PC3, MCF7, OVCA-R
	AA976950		EST singleton (not in UniGene) with exce	2.07	OVCA-R, PC3, EB
	AJ421059		EST singleton (not in UniGene) with exon CH.14_p2 gij6065780	2.07	HT29, OVCA-R, CALU6 EB, HT29, OVCA-R
329735 335193			CH22_FGENES.507_8	2.07 2.07	EB, A549, A549
	R34423	Hs.221535		2.07	CALU6, A549, EB
	AA724474			2.07	MB-MDA-453, PC3, HT29
	AW293224			2.07	HT29, CALU6, CALU6
	T65096		EST cluster (not in UniGene)	2.07	MB-MDA-453, MCF7, CALU6
330204			CH.05_p2 gij6013606	2.07	OVCA-R, DU145, EB
317070	Al142037	Hs.125379		2.07	PRSC_con, NCI-H345, OVCA-R
337645			CH22_EM:AC000097.GENSCAN.10-8	2.07	NCI-H345, PRSC_log, NCI-H69
	AW450490	Hs.132886		2.07	NCI-H520, CALU6, MCF7
335587	A1047700	LI <sub>0</sub> 40000~	CH22_FGENES.581_26	2.07	NCI-H69, NCI-H345, PRSC_log
		Hs.129997		2.07	NCI-H520, MCF7, MB-MDA-435s
	AF161441 AA554202	He 7RAR7	heat shock 27kD protein 1	2.07	EB, DU145, CALU6 MCF7, MB-MDA-453, PC3
304692	rrwricul	1001001	CH.12_hs gij5866920	2.07	DU145, DU145, MB-MDA-453
30638A	AA936835		EST singleton (not in UniGene) with exon	2.07 2.07	BT474, MB-MDA-231, HT29
337402			CH22_FGENES.752-1	2.07	A549, BT474, DU145
55, 100			•		

327418			CHL02_hs q15867750	2.07	MCF7, MB-MDA-453, MB-MDA-435s
	A1004775	Hs 205091	ESTs; Wealty similar to WW domain bindin	2.07	BT474, MB-MDA-453, PC3
	AA428560			2.07	MB-MDA-231, MB-MDA-435s, BT474
	AA514805			2.07	HT29, BT474, BT474
336657	, , , , , , , , , , , , , , , , , , , ,	.,	CH22_FGENES.35-14	2.07	MB-MDA-453, MCF7, NC1+1460
336035			CH22_FGENES.678_6	2.07	NCH-HES, PRSC_con, RPWE-2
325320			CHL11_hs gli5866870	2.06	NCHH59, PRSC_log, PRSC_con
	AA905312		EST singleton (not in UniGene) with exon	2.06	HT29, OVCA-R, MB-MDA-231
333175			CH22_FGENES.95_2	2.06	LnCap, HT29, DU145
	AA437096	Hs.115502		2.06	MB-MDA-435s, CALU6, CALU6
	AI697536			2.06	NCHH69, PRSC_log, NCHH345
338521	,		CH22 EMAC005500.GENSCAN.395-35	2.06	NCI-H345, PRSC_log, PRSC_log
334900			CH22_FGENES.452_14	2.06	A549, CALUS, NCHH69
337451			CH22_FGENES.774-2	2.06	PRSC_con, PRSC_log, RPWE-2
308792	Al815153	Hs.195188	glycaraldehyda-3-phosphate dehydrogenase	2.06	DU145, BT474, MB-MDA-453
336854			CH22_FGENES.280-1	2.06	LnCap, EB, MB-MDA-435s
304485	AA434076	•	EST singleton (not in UniGene) with exon	2.08	MB-MDA-231, BT474, CALUS
326458			CH.19_hs gli5867400	2.06	EB, DU145, LnCap
303506	AA340605	Hs.105887	ESTs	2.06	LnCap, MCF7, CALU6
333628			CH22_FGENES.226_2	2.06	NCI-H520, NCI-358, NCI-358
300763	AA190753		EST	2.06	NCHH59, NCHH345, PRSC_com
334836			CH22_FGENES.439_6	2.06	NCI-H345, PRSC_con, RPWE-2
335217			CH22_FGENES.512_3	2.06	PRSC_log, PRSC_con, NCI-H69
338970			CH22_DJ32H0.GENSCAN.26-3	2.06	A549, MB-MDA-453, LnCap
334842			CH22_FGENES.439_21	2.06	DU145, HT29, CALU6
	AW006428	Hs.232857		2.06	EB, DU145, OVCA-R
332949			CH22_FGENES.47_12	2.06	EB, DU145, OVCA-R
	AW369663	Hs.150150		2.06	PRSC_con, PRSC_log, RPWE-2
329401			CH.X_hs gl[6682544	2.06	NCHH69, PRSC_con, RPWE-2
	AA837332	11	EST cluster (not in UniGene)	2.06	OVCA-R, MCF7, MB-MDA-453
	W95840	Hs.59745			Caco2, NCI-358, OVCA-R
329839	A1004000		CH.14_p2 glp6672062	2.05	MB-MDA-231, RPWE-2, CALU6
	AI004890 AW137442	Lie 4200CE	EST singleton (not in UniGene) with exon	2.05 2.05	DU145, MB-MDA-453, MCF7
			tyrosyl-tRNA synthetase	2.05	LinCap, EB, PC3 NCH-H345, PRSC_con, RPWE-2
339344	MISUSSOI	113.233307	CH22_BA354112.GENSCAN.28-1	2.05	BT474, MB-MDA-231, A549
	A1632098	He 402000		2.05	NCHH69, RPWE-2, MCF7
327051	MUUZUSU	1 13. 130033	CH.21_hs gii6531965	2.05	PRSC_con, NCI-H345, PRSC_log
336827	•		CH22_FGENES.236-2	2.05	NCI-H345, A549, MB-MDA-231
	A1078033	Hg 177170	ESTs; Moderately similar to III! ALU SUB	2.05	OVCA-R, DU145, CALU6
335036	7301 0000	182111110	CH22_FGENES.475_14	2.05	NCI-H69, PRSC_con, NCI-H345
	N52880	Hs.122817		2.05	RPWE-2, NCI-H345, PRSC_log
			refinoschisis (X-linked; juvenile) 1	2.05	MB-MDA-231, NCHH345, PRSC_con
326070			CH.17_hs glj5867175	2.05	MB-MDA-435s, MB-MDA-231, BT474
338514			CH22_EM:AC005500.GENSCAN.392-4	2.05	PRSC_con, PRSC_log, RPWE-2
328098			CH.06_hs gif5868020	2.05	DU145, CALU6, EB
301102	AA679361	Hs.249487		2.05	NCI-H460, PRSC_con, NCI-H23
	AA923457		EST singleton (not in UniGene) with exon	2.05	NCI-H345, PRSC_con, RPWE-2
317027	AA883808	Hs.174148	ESTs	2.05	EB, DU145, CALU6
336102			CH22_FGENES.693_2	2.04	LnCap, NCI-H69, PRSC_log
301372	Al239895	He 130555	FOT-		
333252		100000	ESIS	2.04	PRSC_con, RPWE-2, PRSC_log
322516			CH22_FGENES.116_4	2.04 2.04	NCI-358, A549, HT29
	AW372340		CH22_FGENES.116_4 ESTs	2.04 2.04 2.04	NCI-358, A549, HT29 HT29, MB-MDA-231, BT474
	AW372340 AA393624		CH22_FGENES.116_4 ESTs EST cluster (not in UniGene)	2.04 2.04 2.04 2.04	NCI-358, A549, HT29 HT29, MB-MDA-231, BT474 RPWE-2, PRSC_con, MB-MDA-231
338770	AA393624	Hs.159717	CH22_FGENES.116_4 ESTs EST cluster (not in UniGene) CH22_EM:AC005500.GENSCAN.520-1	2.04 2.04 2.04 2.04 2.04	NCI-358, A549, HT29 HT29, MB-MDA-231, BT474 RPWE-2, PRSC_con, MB-MDA-231 PRSC_con, NCI-H69, NCI-H460
338770 314795	AW372340 AA393624 AI798611	Hs.159717	CH22_FGENES.116_4 ESTs EST cluster (not in UniGene) CH22_EM:AC005500.GENSCAN.520-1 ESTs	2.04 2.04 2.04 2.04 2.04 2.04	NCI-358, A549, HT29 HT29, MB-MDA-231, BT474 RPWE-2, PRSC_con, MB-MDA-231 PRSC_con, NCI-H69, NCI-H460 EB, PC3, LnCap
338770 314795 333004	AA393624 AI798611	Hs.159717 Hs.157277	CH22_FGENES.116_4 ESTs EST cluster (not in UniGene) CH22_EM:AC005500.GENSCAN.520-1 ESTs CH22_FGENES.60_1	2.04 2.04 2.04 2.04 2.04 2.04 2.04 2.04	NCI-358, A549, HT29 HT29, MB-MDA-231, BT474 RPWE-2, PRSC_con, MB-MDA-231 PRSC_con, NCI-H69, NCI-H460 EB, PC3, LnCap A549, NCI-358, DU145
338770 314795 333004 302405	AA393624 AI798611 AW245825	Hs.159717 Hs.157277 Hs.211914	CH22_FGENES.116_4 ESTs EST cluster (not in UniGene) CH22_EM:AC005500.GENSCAN.520-1 ESTs CH22_FGENES.60_1 NADH dehydrogenase (ubiquinone) Fe-S pro	2.04 2.04 2.04 2.04 2.04 2.04 2.04 2.04	NCI-358, A549, HT29 HT29, MB-MDA-231, BT474 RPWE-2, PRSC, con, MB-MDA-231 PRSC, con, NCI-H69, NCI-H460 EB, PC3, LnCap A549, NCI-358, DU145 NCI-H520, CALU6, Caco2
338770 314795 333004 302405 323587	AA393624 AI798611 AW245825 AI905527	Hs.159717 Hs.157277 Hs.211914 Hs.141901	CH22_FGENES.116_4 ESTs EST cluster (not in UniGene) CH22_EM:AC005500.GENSCAN.520-1 ESTs CH22_FGENES.60_1 NADH dehydrogenase (ubiquinone) Fe-S pro ESTs; Moderately similar to [!!] ALU SUB	2.04 2.04 2.04 2.04 2.04 2.04 2.04 2.04	NCI-358, A549, HT29 HT29, MB-MDA-231, BT474 RPWE-2, PRSC_con, MB-MDA-231 PRSC_con, NCI-H69, NCI-H460 EB, PC3, LnCap A549, NCI-358, DU145 NCI-H520, CALU6, Caco2 EB, A549, HT29
338770 314795 333004 302405 323587 300898	AA393624 AI798611 AW245825 AI905527 AIZ76278	Hs.159717 Hs.157277 Hs.211914 Hs.141901 Hs.157176	CH22_FGENES.116_4 ESTs EST cluster (not in UniGene) CH22_EM:AC005500.GENSCAN.520-1 ESTs CH22_FGENES.60_1 NADH dehydrogenase (ubiquinone) Fe-S pro ESTs; Moderately similar to IIII ALU SUB ESTs	2.04 2.04 2.04 2.04 2.04 2.04 2.04 2.04	NCI-358, A549, HT29 HT29, MB-MDA-231, BT474 RPWE-2, PRSC_con, MB-MDA-231 PRSC_con, NCI-H69, NCI-H460 EB, PC3, LnCap A549, NCI-358, DU145 NCI-H520, CALUIS, Caco2 EB, A549, HT29 PC3, MB-MDA-453, BT474
338770 314795 333004 302405 323587 300898 301506	AA393624 AI798611 AW245825 AI905527	Hs.159717 Hs.157277 Hs.211914 Hs.141901 Hs.157176	CH22_FGENES.116_4 ESTs EST cluster (not in UniGene) CH22_EM:AC005500.GENSCAN.520-1 ESTs CH22_FGENES.60_1 NADH dehydrogenase (ubiquinone) Fe-S pro ESTs; Moderately similar to IIII ALU SUB ESTs ESTs; Wealdy similar to testicutar tekti	2.04 2.04 2.04 2.04 2.04 2.04 2.04 2.04	NCI-358, A549, HT29 HT29, MB-MDA-231, BT474 RPWE-2, PRSC_con, MB-MDA-231 PRSC_con, NCI-H69, NCI-H460 EB, PC3, LnCap A549, NCI-358, DU145 NCI-H520, CALU6, Caco2 EB, A549, HT29 PC3, MB-MDA-453, BT474 NCI-H69, RPWE-2, NCI-H345
338770 314795 333004 302405 323587 300898 301506 325851	AA393624 AI798611 AW245825 AI905527 AI276278 AI149878	Hs.159717 Hs.157277 Hs.211914 Hs.141901 Hs.157176 Hs.143519	CH22_FGENES.116_4 ESTS EST cluster (not in UniGene) CH22_EM:AC005500.GENSCAN.520-1 ESTS CH22_FGENES.60_1 NADH dehydrogenase (ubiquinone) Fe-S pro ESTs; Moderately similar to IIII ALU SUB ESTs ESTS; Weakly similar to testicular tekti CH.16_hs gl\( \)5867057	2.04 2.04 2.04 2.04 2.04 2.04 2.04 2.04	NCI-358, A549, HT29 HT29, MB-MDA-231, BT474 RPWE-2, PRSC_con, MB-MDA-231 PRSC_con, NCI-H69, NCI-H460 EB, PC3, LnCap A549, NCI-358, DU145 NCI-H520, CALLIB, Caco2 EB, A549, HT29 PC3, MB-MDA-453, BT474 NCI-H69, RPWE-2, NCI-H345 MB-MDA-231, HT29, EB
338770 314795 333004 302405 323587 300898 301506 325851 323945	AA393624 AI798611 AW245825 AI905527 AI276278 AI149878 AI125604	Hs.159717 Hs.157277 Hs.211914 Hs.141901 Hs.157176 Hs.143519	CH22_FGENES.116_4 ESTs EST cluster (not in UniGene) CH22_EM:AC005500.GENSCAN.520-1 ESTs CH22_FGENES.60_1 NADH dehydrogenase (ubiquinone) Fe-S pro ESTs; Moderately similar to IIII ALU SUB ESTs ESTs; Weakly similar to testicular tekti CH.16_Irs gl 5867067	2.04 2.04 2.04 2.04 2.04 2.04 2.04 2.04	NCI-358, A549, HT29 HT29, MB-MDA-231, BT474 RPWE-2, PRSC, con, MB-MDA-231 PRSC_con, NCI-H69, NCI-H460 EB, PC3, Lincap A549, NCI-358, DU145 NCI-H520, CALUI6, Caco2 EB, A549, HT29 PC3, MB-MDA-453, BT474 NCI-H69, RPWE-2, NCI-H345 MB-MDA-231, HT29, EB MCF7, DU145, DU145
338770 314795 333004 302405 323587 300898 301506 325851 323945 303265	AA393624 AI798611 AW245825 AI905527 AI276278 AI149878	Hs.159717 Hs.157277 Hs.211914 Hs.141901 Hs.157176 Hs.143519	CH22_FGENES.116_4 ESTs EST cluster (not in UniGene) CH22_EM:AC005500.GENSCAN.520-1 ESTs CH22_FGENES.60_1 NADH dehydrogenase (ubiquinone) Fe-S pro ESTs; Moderately similar to fill ALU SUB ESTs ESTs; Weakly similar to testicular tekti CH.16_hs gl 5867057 ESTs EST	204 204 204 204 204 204 204 204 204 204	NCI-358, A549, HT29 HT29, MB-MDA-231, BT474 RPWE-2, PRSC_con, MB-MDA-231 PRSC_con, NCI-H69, NCI-H460 EB, PC3, LnCap A549, NCI-358, DU145 NCI-H520, CALU6, Caco2 EB, A549, HT29 PC3, MB-MDA-453, BT474 NCI-H69, RPWE-2, NCI-H345 MB-MDA-231, HT29, EB MCF7, DU145, DU145 LnCap, OVCA-R, DU145
338770 314795 333004 302405 323587 300898 301506 325851 323945 303265 334135	AA393624 AI798611 AW245825 AI905527 AI276278 AI149878 AI125604	Hs.159717 Hs.157277 Hs.211914 Hs.141901 Hs.157176 Hs.143519	CH22_FGENES.116_4 ESTs EST cluster (not in UniGene) CH22_EM:AC005500.GENSCAN.520-1 ESTs CH22_FGENES.60_1 NADH dehydrogenase (ubiquinone) Fe-S pro ESTs; Moderately similar to IIII ALU SUB ESTs ESTs; Weakly similar to testicular tekti CH.16_hs gl 5867057 ESTs EST EST CH22_FGENES.336_2	204 204 204 204 204 204 204 204 204 204	NCI-358, A549, HT29 HT29, MB-MDA-231, BT474 RPWE-2, PRSC_con, MB-MDA-231 PRSC_con, NCI-H69, NCI-H460 EB, PC3, LnCap A549, NCI-358, DU145 NCI-H520, CALU6, Caco2 EB, A549, HT29 PC3, MB-MDA-453, BT474 NCI-H69, RPWE-2, NCI-H345 MB-MDA-231, HT29, EB MCF7, DU145, DU145 LnCap, OVCA-R, DU145 PC3, A549, MB-MDA-435s
338770 314795 333004 302405 323587 300898 301506 325851 323945 303265 334135 329793	AA393624 AI798611 AW245825 AI905527 AI276278 AI149878 AI125604 AW160951	Hs.159717 Hs.157277 Hs.211914 Hs.141901 Hs.157176 Hs.143519 Hs.155117	CH22_FGENES.116_4 ESTs EST cluster (not in UniGene) CH22_EMcAC005500.GENSCAN.520-1 ESTs CH22_FGENES.60_1 NADH dehydrogenase (ubiquinone) Fe-S pro ESTs; Moderately similar to [!!] ALU SUB ESTs ESTs; Weakly similar to testicular tekti CH.16_hs gl 5867057 ESTs EST EST CH22_FGENES.336_2 CH.14_p2 gl 5522661	204 204 204 204 204 204 204 204 204 204	NCI-358, A549, HT29 HT29, MB-MDA-231, BT474 RPWE-2, PRSC, con, MB-MDA-231 PRSC_con, NCI-H69, NCI-H460 EB, PC3, LnCap A549, NCI-358, DU145 NCI-H520, CALU6, Caco2 EB, A549, HT29 PC3, MB-MDA-453, BT474 NCI-H69, RPWE-2, NCI-H345 MB-MDA-231, HT29, EB MCF7, DU145, DU145 LnCap, OVCA-R, DU145 PC3, A549, MB-MDA-435s DU145, CALU6, HT29
338770 314795 333004 302405 323587 300898 301506 325851 323945 303265 334135 329793 332595	AA393624 AI798611 AW245825 AI905527 AI276278 AI149878 AI125604 AW160951 AA256431	Hs.159717 Hs.157277 Hs.211914 Hs.141901 Hs.157176 Hs.143519 Hs.155117	CH22_FGENES.116_4 ESTS EST cluster (not in UniGene) CH22_EM:AC005500.GENSCAN.520-1 ESTS CH22_FGENES.60_1 NADH dehydrogenase (ubiquinone) Fe-S pro ESTs; Moderately similar to IIII ALU SUB ESTS ESTS ESTS; Weakly similar to testicular tekti CH.16_hs glj5867057 ESTs EST	204 204 204 204 204 204 204 204 204 204	NCI-358, A549, HT29 HT29, MB-MDA-231, BT474 RPWE-2, PRSC_con, MB-MDA-231 PRSC_con, NCI-H69, NCI-H460 EB, PC3, LnCap A549, NCI-358, DU145 NCI-H520, CALLIB, Caco2 EB, A549, HT29 PC3, MB-MDA-453, BT474 NCI-H69, RPWE-2, NCI-H345 MB-MDA-231, HT29, EB MCF7, DU145, DU145 LnCap, OVCA-R, DU145 LnCap, OVCA-R, DU145 PC3, A549, MB-MDA-4358 DU145, CALLIB, HT29 A549, CALLIB, NCI-H23
338770 314795 333004 302405 323587 300898 301506 325851 323945 303265 334135 329793 332595 316069	AA393624 AI798611 AW245825 AI905527 AI276278 AI149878 AI125604 AW160951 AA256431 AW166388	Hs.159717 Hs.157277 Hs.211914 Hs.141901 Hs.157176 Hs.143519 Hs.155117 Hs.250181	CH22_FGENES.116_4 ESTs EST cluster (not in UniGene) CH22_EM:AC005500.GENSCAN.520-1 ESTs CH22_FGENES.60_1 NADH dehydrogenase (ubiquinone) Fe-S pro ESTs; Moderately similar to IIII ALU SUB ESTs ESTs: Weakly similar to testicular tekti CH.16_Is gl 5867067 ESTs EST CH22_FGENES.336_2 CH.14_p2 gl 5522661 G protein pathway suppressor 2. ESTs	204 204 204 204 204 204 204 204 204 204	NCI-358, A549, HT29 HT29, MB-MDA-231, BT474 RPWE-2, PRSC, con, MB-MDA-231 PRSC, con, NCI-H69, NCI-H460 EB, PC3, LnCap A549, NCI-358, DU145 NCI-H520, CALUE, Caco2 EB, A549, HT29 PC3, MB-MDA-453, BT474 NCI-H69, RPWE-2, NCI-H345 MB-MDA-231, HT29, EB MCF7, DU145, DU145 LnCap, OVCA-R, DU145 LnCap, OVCA-R, DU145 PC3, A549, MB-MDA-4358 DU145, CALUE, HT29 A549, CALUE, NCI-H23 MCF7, HT29, A549
338770 314795 333004 302405 323587 300898 301505 325851 323945 303265 334135 329793 332595 316069 324104	AA393624 AI798611 AW245825 AI905527 AI276278 AI149878 AI125604 AW160951 AA256431 AW166388 AW246071	Hs.159717 Hs.157277 Hs.211914 Hs.141901 Hs.157176 Hs.143519 Hs.155117 Hs.250181	CH22_FGENES.116_4 ESTs EST cluster (not in UniGene) CH22_EM:AC005500.GENSCAN.520-1 ESTs CH22_FGENES.60_1 NADH dehydrogenase (ubiquinone) Fe-S pro ESTs; Moderately similar to fill ALU SUB ESTs ESTs: Weakly similar to testicular tekti CH.16_Jrs glj5867067 ESTs EST CH22_FGENES.336_2 CH.14_p2 glj5522661 G protein pathway suppressor 2 ESTs EST	204 204 204 204 204 204 204 204 204 204	NCI-358, A549, HT29 HT29, MB-MDA-231, BT474 RPWE-2, PRSC, con, MB-MDA-231 PRSC_con, NCI-H69, NCI-H460 EB, PC3, LnCap A549, NCI-358, DU145 NCI-H520, CALU6, Caco2 EB, A549, HT29 PC3, MB-MDA-453, BT474 NCI-H69, RPWE-2, NCI-H345 MB-MDA-231, HT29, EB MCF7, DU145, DU145 LnCap, OVCA-R, DU145 PC3, A549, MB-MDA-35s DU145, CALU6, HT29 A549, CALU6, HT29 A549, CALU6, NCI-H23 MCF7, HT29, A549 Caco2, A549, MCF7
338770 314795 333004 302405 323587 300898 301505 325851 323945 303265 334135 329793 332595 316069 324104	AA393624 AI798611 AW245825 AI905527 AI276278 AI149878 AI125604 AW160951 AA256431 AW166388	Hs.159717 Hs.157277 Hs.211914 Hs.141901 Hs.157176 Hs.143519 Hs.155117 Hs.250181	CH22_FGENES.116_4 ESTs EST cluster (not in UniGene) CH22_EM:AC005500.GENSCAN.520-1 ESTs CH22_FGENES.60_1 NADH dehydrogenase (ubiquinone) Fe-S pro ESTs; Moderately similar to fill ALU SUB ESTs ESTs ESTs EST CH22_FGENES.336_2 CH.14_p2_glj6522661 G protein pathway suppressor 2 ESTs ESTs ESTs EST ESTs ESTs ESTs ESTs	204 204 204 204 204 204 204 204 204 204	NCI-358, A549, HT29 HT29, MB-MDA-231, BT474 RPWE-2, PRSC, con, MB-MDA-231 PRSC, con, NCI-H69, NCI-H460 EB, PC3, LnCap A549, NCI-358, DU145 NCI-H520, CALUB, Caco2 EB, A549, HT29 PC3, MB-MDA-453, BT474 NCI-H69, RPWE-2, NCI-H345 MB-MDA-231, HT29, EB MCF7, DU145, DU145 LnCap, OVCA-R, DU145 PC3, A549, MB-MDA-435s DU145, CALUB, NCI-H23 MCF7, HT29, A549 Caco2, A549, MCF7 EB, LnCap, PC3
338770 314795 333004 302405 302587 300898 301506 325851 323945 303265 334135 329793 332595 316069 324104 306801 338096	AA393624 AI798611 AW245825 AI905527 AI276278 AI149878 AI125604 AW160951 AA256431 AW166388 AW246071	Hs.159717 Hs.157277 Hs.211914 Hs.141901 Hs.157176 Hs.143519 Hs.155117 Hs.250181	CH22_FGENES.116_4 ESTs EST cluster (not in UniGene) CH22_EM:AC005500.GENSCAN.520-1 ESTs CH22_FGENES.60_1 NADH dehydrogenase (ubiquinone) Fe-S pro ESTs; Moderately similar to IIII ALU SUB ESTs ESTs; Weakly similar to testicular tekti CH.16_hs glj5867057 ESTs EST CH22_FGENES.336_2 CH.14_p2 glj5522661 G protein pathway suppressor 2 ESTs ESTs EST EST ESTS EST EST ESTS EST ESTS EST EST	204 204 204 204 204 204 204 204 204 204	NCI-358, A549, HT29 HT29, MB-MDA-231, BT474 RPWE-2, PRSC_con, MB-MDA-231 PRSC_con, NCI-H69, NCI-H460 EB, PC3, LnCap A549, NCI-358, DU145 NCI-1520, CALU6, Caco2 EB, A549, HT29 PC3, MB-MDA-453, BT474 NCI-H69, RPWE-2, NCI-H345 MB-MDA-231, HT29, EB MCF7, DU145, DU145 LnCap, OVCA-R, DU145 LnCap, OVCA-R, DU145 PC3, A549, MB-MDA-435s DU145, CALU6, HT29 A549, CALU6, NCI-H23 MCF7, HT29, A549 Caco2, A549, MCF7 EB, LnCap, PC3 DU145, HT29, CALU6
338770 314795 333004 302405 322587 300898 301506 325851 323945 303245 334135 332793 332595 316059 324104 3068016 338096 327544	AA393624 AI798611 AW245825 AI905527 AI276278 AI149878 AI125604 AW160951 AA256431 AW166388 AW246071	Hs.159717 Hs.157277 Hs.211914 Hs.141901 Hs.157176 Hs.143519 Hs.155117 Hs.250181	CH22_FGENES.116_4 ESTs EST cluster (not in UniGene) CH22_EM:AC005500.GENSCAN.520-1 ESTs CH22_FGENES.60_1 NADH dehydrogenase (ubiquinone) Fe-S pro ESTs; Moderately similar to fill ALU SUB ESTs ESTs ESTs EST CH22_FGENES.336_2 CH.14_p2_glj6522661 G protein pathway suppressor 2 ESTs ESTs ESTs EST ESTs ESTs ESTs ESTs	204 204 204 204 204 204 204 204 204 204	NCI-358, A549, HT29 HT29, MB-MDA-231, BT474 RPWE-2, PRSC, con, MB-MDA-231 PRSC, con, NCI-H69, NCI-H460 EB, PC3, LnCap A549, NCI-358, DU145 NCI-H520, CALUB, Caco2 EB, A549, HT29 PC3, MB-MDA-453, BT474 NCI-H69, RPWE-2, NCI-H345 MB-MDA-231, HT29, EB MCF7, DU145, DU145 LnCap, OVCA-R, DU145 PC3, A549, MB-MDA-435s DU145, CALUB, NCI-H23 MCF7, HT29, A549 Caco2, A549, MCF7 EB, LnCap, PC3
338770 314795 333004 302405 3223587 300898 301506 323945 303265 334135 329793 332595 3316059 324104 306801 338096 327544 318813 325289	AA393624 AI798611 AW245825 AI905527 AI276278 AI149878 AI125604 AW160951 AA256431 AW166388 AW246071 AI052653 F13195	Hs.159717 Hs.157277 Hs.211914 Hs.141901 Hs.157176 Hs.143519 Hs.155117 Hs.3244 Hs.250181 Hs.133122	CH22_FGENES.116_4 ESTS EST cluster (not in UniGene) CH22_EM:AC005500.GENSCAN.520-1 ESTS CH22_FGENES.60_1 NADH dehydrogenase (ubiquinone) Fe-S pro ESTs; Moderately similar to fill ALU SUB ESTs ESTs ESTs; Weakly similar to testicular tekti CH.16_Jrs glj5867057 ESTs EST CH22_FGENES.336_2 CH.14_p2 glj5522661 G protein pathway suppressor 2 ESTs EST	204 204 204 204 204 204 204 204 204 204	NCI-358, A549, HT29 HT29, MB-MDA-231, BT474 RPWE-2, PRSC, con, MB-MDA-231 PRSC, con, NCI-H69, NCI-H460 EB, PC3, LnCap A549, NCI-358, DU145 NCI-H520, CALLIB, Caco2 EB, A549, HT29 PC3, MB-MDA-453, BT474 NCI-H69, RPWE-2, NCI-H345 MB-MDA-231, HT29, EB MCF7, DU145, DU145 LnCap, OVCA-R, DU145 LnCap, OVCA-R, DU145 PC3, A549, MB-MDA-4358 DU145, CALLIB, H729 A549, CALLIB, NCI-H23 MCF7, HT29, A549 Caco2, A549, MCF7 EB, LnCap, PC3 DU145, H729, CALLIB PRSC_con, NCI-H69, NCI-H345
338770 314795 333040 302405 3023987 300898 301506 323945 3323945 332955 334135 329793 332595 3160801 338096 327544 318813 325289 311099	AA393624  AI798611  AW245825  AI905527  AI276278  AI149878  AI125604  AW160951  AA256431  AW166388  AW246071  AI052653  F13195  T56361	Hs.159717 Hs.157277 Hs.211914 Hs.141901 Hs.157176 Hs.143519 Hs.155117 Hs.3244 Hs.250181 Hs.133122	CH22_FGENES.116_4 ESTs EST cluster (not in UniGene) CH22_EM:AC005500.GENSCAN.520-1 ESTs CH22_FGENES.60_1 NADH dehydrogenase (ubiquinone) Fe-S pro ESTs; Moderately similar to fill ALU SUB ESTs ESTs; Wealdy similar to testicular tekti CH.16_hs glj5867057 ESTs EST CH22_FGENES.336_2 CH.14_p2 glj6522661 G protein pathway suppressor 2 ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	204 204 204 204 204 204 204 204 204 204	NCI-358, A549, HT29 HT29, MB-MDA-231, BT474 RPWE-2, PRSC, con, MB-MDA-231 PRSC, con, NCI-H69, NCI-H460 EB, PC3, LnCap A549, NCI-358, DU145 NCI-H520, CALUE, Caco2 EB, A549, HT29 PC3, MB-MDA-453, BT474 NCI-H69, RPWE-2, NCI-H345 MB-MDA-231, HT29, EB MCF7, DU145, DU145 LnCap, OVCA-R, DU145 LnCap, OVCA-R, DU145 PC3, A549, MB-MDA-4358 DU145, CALUE, HT29 A549, CALUE, NCI-H23 MCF7, HT29, A549 Caco2, A549, MCF7 EB, LnCap, PC3 DU145, HT29, CALUE PRSC_con, NCI-H69, NCI-H345 PRSC_con, RPWE-2, PRSC_log
338770 314795 333040 302405 3023987 300898 301506 323945 3323945 332955 334135 329793 332595 3160801 338096 327544 318813 325289 311099	AA393624 AI798611 AW245825 AI905527 AI276278 AI149878 AI125604 AW160951 AA256431 AW166388 AW246071 AI052653 F13195	Hs.159717 Hs.157277 Hs.211914 Hs.141901 Hs.157176 Hs.143519 Hs.155117 Hs.3244 Hs.250181 Hs.133122	CH22_FGENES.116_4 ESTs EST cluster (not in UniGene) CH22_EM:AC005500.GENSCAN.520-1 ESTs CH22_FGENES.60_1 NADH dehydrogenase (ubiquinone) Fe-S pro ESTs; Moderately similar to fill ALU SUB ESTs ESTs; Wealdy similar to testicular tekti CH.16_hs glj5867057 ESTs EST CH22_FGENES.336_2 CH.14_p2 glj6522661 G protein pathway suppressor 2 ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	204 204 204 204 204 204 204 204 204 204	NCI-358, A549, HT29 HT29, MB-MDA-231, BT474 RPWE-2, PRSC, con, MB-MDA-231 PRSC_con, NCI-H69, NCI-H460 EB, PC3, Lincap A549, NCI-358, DU145 NCI-H520, CALUB, Caco2 EB, A549, HT29 PC3, MB-MDA-453, BT474 NCI-H69, RPWE-2, NCI-H345 MB-MDA-231, HT29, EB MCF7, DU145, DU145 Lincap, OVCA-R, DU145 PC3, A549, MB-MDA-435s DU145, CALUB, HT29 A549, CALUB, NCI-H23 MCF7, HT29, A549 Caco2, A549, MCF7 EB, Lincap, PC3 DU145, HT29, CALUB PRSC_con, NCI-H69, NCI-H645 PRSC_con, RPWE-2, PRSC_log EB, OVCA-R, A549

309533	AW151131		EST singleton (not in UniGene) with exon	2.03	MB-MDA-231, BT474, LnCap
338579	A11131101		CH22 EM:AC005500.GENSCAN.431-3	2.03	NCHH69, NCHH345, RPWE-2
326549			CH.19_hs gij5887307	2.03	NCI-H69, Caco2, NCI-H345
	A1628384	Hs.193745		2.03	BT474, MB-MDA-453, MCF7
334111		1 13. 1337 43	CH22_FGENES.330_10	2.03	NCI-H69, MB-MDA-231, BT474
327123			CH.21_hs gl[6531971	2.03	NCH1345, NCH169, RPWE-2
	AW502311		EST cluster (not in UniGene)	2.03	NCI-H345, NCI-H520, NCI-H460
	AA896989		EST singleton (not in UniGene) with exon	2.03	NCI-H69, PRSC_log, PRSC_con
	AA012877		EST Suigetan (not in Oriocate) with each	2.03	RPWE-2, OVCA-R, EB
	U52219	He 159220	G protein-coupled receptor 50	2.03	NCHH520, NCHH23, PC3
326646	UUZZIJ	110.100023	CH.20_hs gij5867562	2.03	NCI-H460, OVCA-R, HT29
	T61464		EST singleton (not in UniGene) with exon	2.03	NCI-H345, PRSC_con, PRSC_log
	AA535602		EST singleton (not in UniGene) with exon	2.03	A549, DU145, EB
	M83652	Hs.53155	properdin P factor; complement	2.02	NCI-H23, NCI-H460, NCI-358
	AI473273		ESTs; Weakly similar to GLUTAMATE [H.sap		NCI-H345, MB-MDA-231, BT474
330327	MHIJZIJ	15.1550/4	CH.08_p2 git5919194	2.02	NCHH345, NCHH69, PRSC_log
	A1659985		EST singleton (not in UniGene) with exon	2.02	NCH1345, RPWE-2, PRSC_log
	Al344972	Hs.231496		2.02	NCHH69, CALUE, OVCA-R
	T87351	Hs.194121		2.02	NCI-H460, NCI-358, NCI-H520
			ESTs; Wealdy similar to Wiskott-Aldrich	2.02	DU145, EB, OVCA-R
	AL037405			2.02	PRSC_con, LnCap, PRSC_log
334779	ML03/403	ns.170141		2.02	
336994			CH22_FGENES.432_1	2.02	EB, HT29, DU145
334076			CH22_FGENES.410-2	2.02	NCI+1345, PRSC_con, NCI+169 OVCA-R, CALU6, EB
	AW452865	Un 422220	CH22_FGENES.327_31	2.02	
	A99402000	ns. 132339		2.02	MB-MDA-231, NCI-H69, NCI-H345
326783			CH.20_hs glj6525298	2.02	NCHH69, PRSC_con, RPWE-2
336142	4.4002722		CH22_FGENES.705_4	2.02	NCI-H69, PRSC_log, PRSC_con
	AA663733		EST cluster (not in UniGene)	2.02	DU145, EB, CALU6
	AW239364		EST		PRSC_con, RPWE-2, PRSC_log
			ESTs; Weakly similar to Sit-3 protein [	2.01	RPWE-2, NCI-H69, NCI-H23
	AW137088			2.01	PRSC_con, NCI-H345, PRSC_log
	A1863918	MS.190076		2.01	NCI-H345, NCI-H69, RPWE-2
	R87679		EST cluster (not in UniGene)	2.01	HT29, A549, NCI-H460
334760			CH22_FGENES.428_9 CH22_EM:AC005500.GENSCAN.325-2	2.01	NCI-358, NCI-H69, PRSC_Jog
338368	A1447007	Un 400220		2.01	NCI-H23, NCI-H520, NCI-H460
	AJ417007	Hs.166338		2.01	NCI-H460, DU145, NCI-H23 MCF7, MB-MDA-453, OVCA-R
	AW178750 AA907713	Un 224667		2.01	PRSC_con, NCI-H345, RPWE-2
333308	AASUIT IS	113.221007	CH22_FGENES.137_3	2.01	NCI-H69, NCI-H345, PRSC_con
328031			CH.06_hs gif5902482	2.01	MB-MDA-231, NCHH345, PRSC_con
	AA326007	He 12056		2.01	
			asialoglycoprotein receptor 1	2.01	MB-MDA-453, DU145, EB HT29, NCH-H23, NCH-358
		па.19177	ESTs; Weakly similar to XAP-5-like prote .	2.01	PRSC_con, NCI-H345, NCI-H69
	T84520 R17059	Hs.22100	EST cluster (not in UniGene) ESTs	2.01	EB, DU145, MB-MDA-435s
	A1829820	113.22100	EST singleton (not in UniGene) with exon	2.01	DU145, EB, PC3
	AA732066		EST Single Bull (not in onlocate) with exort	2.01	OVCA-R, PC3, MB-MDA-435s
	AA576428			2.01	LnCap, MB-MDA-453, DU145
334855	PANSI 0420		EST singleton (not in UniGene) with exon CH22_FGENES.442_6	2.01	NCI-H345, RPWE-2, PRSC_log
337121			CH22_FGENES.519-1	2.01	NCI-H69, NCI-H345, PRSC_con
	AA412498	He 104779		2.01	BT474, BT474, MCF7
339181	/VH112430	113.10-1710	CH22_DA59H18.GENSCAN.72-6	2.01	NCHH345, PRSC_con, NCHH69
327564			CH.03_hs gij5867811	2.01	BT474, HT29, DU145
	R63932	Hs.28467	EGL Outro Dra dibroto Li	2	BT474, OVCA-R, MCF7
	AA534953			2	MB-MDA-435s, MB-MDA-453, LnCap
	W92809	Hs.138557		2	PRSC_con, NCI-H345, MB-MDA-231
	AA868536			2	HT29, HT29, BT474
	R52177	144150170	EST cluster (not in UniGene)	2	EB, A549, BT474
	AI761307		EST singleton (not in UniGene) with exon	2	RPWE-2, PRSC_con, NCI-H345
325755	100 P		CH.14_hs gij6682474	2	NCHH345, PRSC_con, PRSC_log
	AW499705		EST cluster (not in UniGene)	2	DU145, BT474, PC3
	AA432166	Hs.3577	succinate dehydrogenase complex; subunit	2	CALU6, MB-MDA-453, A549
50.000				-	

#### Table 4

Pkry: Unique Eos probeset identifier number

RxAcca: Rxempkar Accession number, Genhank accession number

Unique Title: Unique gene title

	•				
Pikey	Exr_Accn	UniG_ID	Complete_Title	Ratio Met/BS	Top 3 expressing cell lines
313166	A1801098	Hs.151500	ESTs	12.23	Capo2, EB, OVCA-R
334593			CH22_FGENES.408_3	8.06	NCI-H69, OVCA-R, OVCA-R
	R20655	Hs.81281	Human clone 23732 mRNA; partial cds	7.89	LinCap, OVCA-R, EB
	AA502659			7.77	OVCA-R, EB, CALU6
	AA192455			7.76	CALU6, EB, DU145
	AW362945			6.81	OVCA-R, EB, CALU6
325519			CH.12_hs gij6017036	6.34	NCHH69, NCHH345, PRSC_con
	H68097	Hs.161023		6.16	OVCA-R, A549, EB
	AA533447		EST cluster (not in UniGene)	6.15	PC3, EB, CALU6
337695			CH22_EM:AC000097.GENSCAN.84-1	5.84	NCHH69, NCHH345, DU145
	AA378739		EST cluster (not in UniGene)	5.77	OVCA-R, DU145, EB
	AA731209		EST cluster (not in UniGene) with exon h	5.72	MB-MDA-453, MCF7, MB-MDA-435s
320701	AI093177	Hs.134923		5.68	A549, NCI+1345, NCI+169
			nuclear receptor co-repressor 2	5.68	LnCap, A549, OVCA-R
	AA421163			5.66	OVCA-R, DU145, Caco2
	H40988	Hs.131965		NCHH345, OVCA	
	AF086372		EST cluster (not in UniGene)	5.31	OVCA-R, DU145, PC3
	AA582082	Hs.199410		5.17	PRSC_con, PRSC_log, NCI-H345
	AA565051			5.16	OVCA-R, PC3, EB
	AW271974			5.15	NCHH69, PRSC_log, PRSC_con
	AW292247			5.05	Caco2, OVCA-R, EB
			ESTs; Moderately similar to IIII ALU CLA	5.04	EB, DU145, HT29
330886	AA135606	Hs.189384	ESTs; Wealty similar to IIII ALU SUBFAMI	4.93	OVCA-R, DU145, Caco2
	AW162263			4.84	NCH1460, NCH1345, NCH123
	Al539443			4.84	DU145, Caco2, MB-MDA-231
			H sapiens clone 24838 mRNA seq	4.83	PC3, OVCA-R, DU145
	AA135159			4.82	OVCA-R, PC3, Caco2
	AA078493		EST cluster (not in UniGene)	4.81	DU145, EB, OVCA-R
	H01560	Hs.163813	ESTs; Weakly similar to IIII ALU SUBFAMI	4.8	NCI-H345, DU145, LnCap
312828	AI865455	Hs.211818	ESTs; Moderately similar to IIII ALU SUB	4.78	DU145, DU145, DU145
321226	AA311443	Hs.251416	H saplens mRNA; cDNA DKFZp586E2317 (fr	om	4.75 DU145, OVCA-R, MB-MDA-453
327772			CH.05_hs g][5867964	4.74	HT29, MB-MDA-231, NCI-H345
315642	AA742222	Hs.120634	ESTs	4.7	DU145, EB, MB-MDA-453
	AA555215	Hs.151913	ESTs	4.7	DU145, Caco2, PRSC_con
312754	R99834	Hs.250383	ESTS	4.59	OVCA-R, PC3, EB
336637			CH22_FGENES.13-7	4.58	NCI-H69, PRSC_log, NCI-H345
331644	T99544	Hs.173734	ESTs; Weakly similar to IIII ALU CLASS B	4.55	OVCA-R, NCI-H345, Caco2
336984			CH22_FGENES.401-2	4.55	Caco2, Caco2, EB
316261	AW134485	Hs.144967	ESTs	4.53	NCI-H460, NCI-H345, Caco2
300417	AW139492	Hs.245887	ESTs	4,52	DU145, CALU6, EB
300610	N72596		DEAD/H (Asp-Glu-Ala-Asp/His) box polypep	4.52	OVCA-R, PC3, EB
324718	Al557019	Hs.116467		4,5	LnCap, PC3, PRSC_con
	F04112	Hs.177178	ESTs	4.47	Caco2, DU145, DU145
	AA377589		EST cluster (not in UniGene)	4,45	NCH1345, PRSC_con, PRSC_log
	R73816	Hs.17385		4.44	CALU6, OVCA-R, EB
328981			CH.09_hs g1 5868527	4.43	HT29, BT474, NC1H69
	N63915		EST cluster (not in UniGene)		Caco2, A549, A549
	AA214584		EST cluster (not in UniGene)		NCH123, CALU6, OVCA-R
	A1680459	Hs.201441		4.33	DU145, HT29, CALU6
	Al707882	•	EST singleton (not in UniGene) with exon		MCF7, NCH1345, OVCA-R
302459	AF169255		EST cluster (not in UniGene) with exon h	4.28	MB-MDA-231, OVCA-R, LnCap
321847	T08401		EST cluster (not in UniGene)	4.25	MB-MDA-453, MB-MDA-435s, MB-MDA-231
337884			CH22_EM:AC005500.GENSCAN.54-2		HT29, NCHH23, MB-MDA-435s
	Al269188	Hs.175656			NCH123, NCH1520, NC1-358
	AA573072	Hs.187748	ESTs; Wealty similar to IIII ALU SUBFAMI		PC3, OVCA-R, Caco2
336638			CH22_FGENES.14-2		NCI-H69, NCI-H345, PRSC_log
319379	T91443	Hs.193963			PC3, OVCA-R, LnCap
312332	R33041	Hs.106200			NCI-H69, OVCA-R, NCI-H460
331445	H89093	Hs.41215			EB, HT29, DU145
	AW136397	HS.247572	ESTS		Caco2, MB-MDA-453, LnCap
	AI950133	HS.120882	ESTs; Moderately similar to IIII ALU SUB		LnCap, NCI-H345, OVCA-R
	AA773876			****	NCHH345, Caco2, DU145
300791	AL138455	rts.256135	ESTs; Moderately similar to IIII ALU SUB	4.13	NCI-358, RPWE-2, NCI-H460

					01/01/0 1/05/
	AW300867		EST cluster (not in UniGene)	4.12	OVCA-R, MCF7, A549
		Hs.128783		4.11	OVCA-R, Caco2, PRSC_con
		Hs.118241		4.1	OVCA-R, DU145, Caco2
314022	AW452420	Hs.248678	ESTs	4.1	OVCA-R, EB, PC3
321359	AW474412		EST cluster (not in UniGene)	4.1	DU145, OVCA-R, PC3
328841			CH.07_hs gij6381920	4.09	NCI-H69, PRSC_log, NCI-H345
337898			CH22_EM:AC005500.GENSCAN.56-5	4.09	NCH1345, NCH169, OVCA-R
333245			CH22_FGENES.115_2	4.0 <del>9</del>	PRSC_log, PRSC_can, NCI-H345
311958	A1247472	Hs.132965	ESTs	4.08	EB, DU145, CALU6
314775	A1149880	Hs.188809	ESTs	4.06	OVCA-R, PC3, EB
317901	AW150944	Hs.250541	ESTs	4.06	BT474, MB-MDA-453, MB-MDA-435s
309985	AW452919		EST singleton (not in UniGene) with exon	4.05	MB-MDA-453, NCI-H23, NCI-H520
311004	AA632846		EST cluster (not in UniGene)	4.05	MB-MDA-453, OVCA-R, EB
323497	AI523613	Hs.221544	ESTs	4.04	LnCap, OVCA-R, EB
332347	W60326	Hs.221716	ESTs	4.04	EB, CALU6, PC3
331388	AA456852	Hs.43543	suppressor of white apricot homolog 2	4.01	A549, EB, Caco2
313197	AI738851	Hs.222487	ESTS	3.96	OVCA-R, EB, PC3
315710	AA931550	Hs.192785	ESTs	3.95	EB, MB-MDA-231, OVCA-R
	AA838114		EST cluster (not in UniGene)	3.94	OVCA-R, A549, MB-MDA-453
	W86440	Hs.118344		3.94	NCI-H460, Caco2, EB
	AA513225		EST singleton (not in UniGene) with exon	3.9	NCH+345, RPWE-2, BT474
325726			CH.14_hs gl)6552447	3.9	OVCA-R, LnCap, LnCap
	R32047	Hs 141012	ESTs; Wealdy similar to IIII ALU SUBFAMI	3.89	DU145, NCI-H23, PRSC_log
	N63062	Hs.48703		3.87	NCI-H23, NCI-H460, NCI-358
	T98413	110.10100	EST cluster (not in UniGene)	3.86	NCI-H345, PRSC_log, LnCap
		Hs.130729		3.84	OVCA-R, DU145, NCI-H345
	AI969314	Hs.211377		3.82	NCI-H345, PRSC_con, PRSC_log
	AA419617	TIS.21 13/1		3.81	EB. OVCA-R. A549
	N74924	U= 400000	EST cluster (not in UniGene)	3.8	EB, Caco2, OVCA-R
		Hs.182099			
	AA046804		ESTs; Weakly similar to IIII ALU SUBFAMI	3.8	LnCap, DU145, PC3
327289	maa740		CH.01_hs gij5867481	3.79	EB, HT29, DU145
	AW300749		EST cluster (not in UniGene)	3.79	OVCA-R, PC3, PRSC_con
		Hs.127505		3.79	DU145, CALU6, NCI-H69
	AW293995	Hs.192277		3.78	EB, PC3, Caco2
336635			CH22_FGENES.13-5	3.77	NCHH69, NCHH345, PRSC_log
333323			CH22_FGENES.138_16	3.76	NCI-H460, NCI-H23, PRSC_con
		Hs.245251		3.75	NCH1345, A549, Caco2
	AA861087		EST cluster (not in UniGene)	3.75	NCHH345, NCHH69, RPWE-2
			ESTs; Weakly similar to fill ALU CLASS C	3.74	MB-MDA-435s, MCF7, MB-MDA-453
315422	AW135357	Hs.192374	ESTs	3.73	OVCA-R, A549, EB
336616			CH22_FGENES.613_5	3.72	NÇIH69, NCIH345, RPWE-2
320258	W93241		EST cluster (not in UniGene)	3.71	MB-MDA-231, NCHH69, EB
300463	N52510	Hs.186470	ESTs	3.69	OVCA-R, A549, DU145
306881	A1088695		EST singleton (not in UniGene) with exon	3.68	CALU6, HT29, EB
337304			CH22_FGENES.681-6	3.67	MCF7, MB-MDA-453, LnCap
323693	AW297758	Hs.249721	EST9	3.67	OVCA-R, MB-MDA-453, DU145
331073	R07998	Hs.18628	EST's; Wealdy similar to IIII ALU SUBFAMI	3.67	RPWE-2, NCI-H345, OVCA-R
318162	AW296277	Hs.132171		3.67	MB-MDA-231, DU145, CALU6
318042	AW294522	Hs.149991	ESTs	3.66	EB, HT29, CALU6
308069	A1470895		EST singleton (not in UniGene) with exon	3.64	Caco2, Caco2, NCI-H23
327614			CH.04_hs gli6525283	3.62	NCI-H460, NCI-H345, NCI-H69
337514			CH22_FGENES.809-7	3.62	NCI-358, NCI-H23, NCI-H460
	AA608794	Hs.112592		3.6	EB, OVCA-R, DU145
327793			CH.05_hs gl 5867979	3.59	LnCap, OVCA-R, EB
	N70242	Hs.183146		3.59	OVCA-R, EB, Caco2
		Hs.173415		3.58	HT29, CALU6, CALU6
	R97130	Hs.189699		3.58	PRSC_con, LnCap, RPWE-2
	AI828602	Hs.211265		3.57	CALUS, NCI-H345, OVCA-R
	AI656531	Hs.116070		3.57	PRSC_con, NCI-H345, PRSC_log
		Hs.170784		3.57	NCHH69, NCHH345, PRSC_con
	Al339447	155.170704	EST singleton (not in UniGene) with exon	3.56	NCI-358, HT29, MB-MDA-231
	W44531	Hs.167851			NCHH345, NCHH69, Caco2
		Hs.207144		3.55	MB-MDA-231, PRSC_con, LnCap
	AI659166	NS.20/ 144		3.55	
338830	4 4 0 4 0 0 0 0 2	U- 040044	CH22_DJ246D7.GENSCAN.6-7	3.54	LnCap, PC3, OVCA-R
		Hs.212911		3.53	OVCA-R, MB-MDA-453, CALU6
	N22273	Hs.39140		3.52	EB, A549, CALU6
	Al123657	Hs.127264		3.51	EB, OVCA-R, A549
330139		11 40000	CH.21_p2 g[ 4210430	3.5	EB, CALU6, DU145
		HS.10326	coatomer protein complex; subunit epsilo	3.49	NCH1345, NCH169, NCH1460 ···
325763			CH.14_hs gl[6682475	3.49	PC3, BT474, OVCA-R
		Hs.117864		3.A7	OVCA-R, Caco2, MB-MDA-453
		Hs.168308		3.46	DU145, NCHH460, NCHH69
317924	A1222324	Hs.166306	ESTs; Weakly similar to zinc finger prot	3.46	PRSC_con, PRSC_log, NCI-H69
242254		U- 407040	ECTo	2.44	Caco2, MB-MDA-435s, NCI-H460
312304	AA036955	UN: 101040		3.44	
337517			CH22_FGENES.814-6	3.44 3.43	NCHH69, HT29, PC3
337517		Hs.114103	CH22_FGENES.814-6		

	AW300094		EST cluster (not in UniGene)	3.42	PRSC_con, RPWE-2, NCH4345
314452	AL042699	Hs.209222	ESTs	3.42	NCHH345, PRSC_con, PRSC_log
337911		•	CH22_EM:AC005500.GENSCAN.59-6	3.42	OVCA-R, PC3, HT29
318086	Al025499	Hs.132238	ESTs	3.41	CALUE, LinCaid, OVCA-R
311859	AA704705	Hs.181044	ESTs; Wealty similar to Chain A; Human O		
			Complexed With L-Canaline [Hsaplens]	3.41	LnCap, MB-MDA-435s, A549
314409	H15560	Hs.131833		3.41	NCHH69, LnCap, LnCap
	AA228883		EST cluster (not in UniGene)	3.41	Caco2, OVCA-R, NCHH69
325690			CH.14_hs gip867021	3.4	
		Hs.190092	ECTo		HT29, CALUS, DU145
		Hs.155780		3.4	MB-MDA-231, BT474, EB
	S77356	U2' 1201.00		3.4	PRSC_con, NCH+1345, NCH+169
330327	3//330		transcript ch21=oligomycin sensitivity c		
244000	A A A0COCT	11- 400-00	8 stomach cancer cell lines, mRNA, 262 n	3.39	NCHH23, Caco2, A549
		Hs.188780		3.39	OVCA-R, BT474, Caco2
	AB033072		EST cluster (not in UniGene)	3.39	NCI-358, EB, Caco2
		Hs.188715		3.38	DU145, CALU6, CALU6
328592			CH.07_hs g#5868227	3.38	MCF7, NCI-358, MB-MDA-231
		Hs.232193		3.36	NCHH520, NCHH23, PRSC_log
	AA393460		EST cluster (not in UniGene)	3.36	DU145, EB, Caco2
327740			CH.05_hs gl\$867943	3.35	EB, LnCap, OVCA-R
326857			CH.20_hs gij6552460	3.33	NCI-H69, MCF7, NCI-H345
317787	AW339612	Hs.249364	ESTs	3.31	NC1-H345, PRSC_con, PRSC_log
325760			CH.14_hs gij6552449	3.3	EB, CALU6, HT29
337513			CH22_FGENES.809-4	3.29	LnCap, NCHH23, NCHH460
336606			CH22_FGENES.429_3	3.29	NCI-H69, A549, NCI-H23
322895	AW470295	Hs.192152	ESTs	3.29	DU145, Caco2, EB
314312	AA814971	Hs.257634	ESTs	3.29	RPWE-2, NCI-H69, NCI-H345
328224			CH.06_hs g15868101	3.28	DU145, NCHH345, LnCap
336128			CH22_FGENES.701_16	3.27	BT474, NC1+1520, MB-MDA-231
	AA281323	Hs.4947	ESTs	3.27	Caco2, PC3, NCI-H345
	M14269		EST cluster (not in UniGene) with exon h	3.27	DU145, CALUS, NCI-H520
		Hs.130803		3.26	OVCA-R, NCI-H69, DU145
		Hs.114164		3.26	LnCap, NCI-H345, PRSC_log
334690			CH22_FGENES.420_3	3.25	NCHH69, RPWE-2, PRSC_con
	AI761036		EST singleton (not in UniGene) with exon	3.25	
		He 41133/	ferritin; light polypeptide		DU145, MB-MDA-231, HT29
		Hs.13849		3.24	OVCA-R, DU145, A549
			KIAA0953 protein	3.24	NCI-H460, NCI-H23, MB-MDA-453
		Hs.123337		3.24	EB, MCF7, MB-MDA-435s
326942	AND 10700	ris. 123331		3.23	DU145, OVCA-R, BT474
	AIDSCOOO	Hs.224624	CH.21_hs gi 6004446	3.22	HT29, BT474, NCI-H23
		NS.224024		3.21	OVCA-R, MB-MDA-453, EB
	R78712	U= 400700	EST cluster (not in UniGene)	3.21	DU145, LnCap, EB
		Hs.186736		3.21	Caco2, NCI-358, NCI-H460
		Hs.197025		3.19	OVCA-R, PC3, LnCap
		Hs.158906		3.19	NCI-358, NCI-H345, MCF7
	AA130859		EST cluster (not in UniGene)	3.18	MB-MDA-231, HT29, BT474
336634	A A 7700CD	13- 400400	CH22_FGENES.13-4	3.18	NCI-H69, NCI-H345, BT474
			ESTs; Wealthy similar to NG26 [H.saplens]	3.17	NCI-H345, NCI-H345, NCI-358
		Hs.144583		3.17	Cacc2, EB, OVCA-R
	Al188864		EST singiston (not in UniGene) with exon	3.17	EB, CALU6, CALU6
	Al174861			3.17	OVCA-R, DU145, PC3
		Hs.128064		3.17	MB-MDA-231, BT474, EB
	AA770682		EST singleton (not in UniGene) with exon	3.17	NCI-358, Caco2, HT29
		Hs.124918		3.17	EB, OVCA-R, Caco2
		Hs.161784		3.17	EB, BT474, MCF7
	AL039604		EST cluster (not in UniGene) with exon h	3.17	HT29, NCI-358, Caco2
	R05818	Hs.173830		3.16	MCF7, DU145, EB
	AW088739	Hs.243770		3.16	MB-MDA-453, DU145, MCF7
335344			CH22_FGENES.536_3	3.15	PRSC_Jog, NCHH345, PRSC_con
326162			CH_17_hs glj5867168	3.15	BT474, HT29, HT29
	AA424703		EST singleton (not in UniGene) with exon	3.15	NCI-H23, RPWE-2, NCI-H460
339340			CH22_BA354112.GENSCAN_27-8	3.15	LnCap, OVCA-R, MB-MDA-453
325393			CH.12_hs gij5866921	3.13	Caco2, NCI-H23, NCI-358
315367	AA732484	Hs.169399	ESTs	3.13	OVCA-R, EB, MB-MDA-453
307085	Al160868		EST singleton (not in UniGene) with exon	3.12	RPWE-2, PRSC_con, PRSC_log
313001	N29264	Hs.249591	ESTs; Moderately similar to IIII ALU SUB	3.12	NCH1345, OVCA-R, Caco2
307606	Al290006		EST singleton (not in UniGene) with exon	3.12	MB-MDA-231, HT29, NCI-H23
325710			CH.14_hs gl 6682473	3.09	NCI-H69, MB-MDA-453, BT474
	AA400079	Hs.257854		3.09	EB, DU145, CALU6
335482			CH22_FGENES.570_11	3.09	NCI-H460, NCI-358, NCI-H23
326310			CH.17_hs gl 5867277	3.08	MCF7, MB-MDA-453, PC3
325742			CH.14_hs gil6552448	3.08	NCI-H23, NCI-H460, HT29
	Al241809	Hs.75458	ribosomal protein L18	3.08	NCI-358, NCI-H23, NCI-H460
327309	7 1000		CH.01_hs gli6456757	3.07	NCI-H69, MB-MDA-435s, MB-MDA-435s
310253	<b>₩</b> 205632	Hs.211198			
	W25673	Hs.130829		3.07	OVCA-R, A549, Cato2
ن البليد	1120410	100023		3.07	NCI-H69, PRSC_con, NCI-H345

20110	*****	11- 400040	For.	0.00	NCI-H345, RPWE-2, PRSC con
	AW152624			3.06	
	AAB31815	Hs.243788		3.06	Caco2, DU145, EB
302445	N79647		EST cluster (not in UniGene) with exon h	3.05	OVCA-R, A549, NCI-H460
302842	AW383226	Hs.163834	ESTs: Highly similar to Cho [R.norveolou	3.05	A549, DU145, NCI-H23
317346	AA952875	Hs.221274	ESTs	3.04	BT474, HT29, HT29
334650			CH22_FGENES.417_17	3.04	MCF7, BT474, OVCA-R
	AI002913				
			EST singleton (not in UniGene) with exon	3.04	CALU6, MCF7, BT474
	Al110679		EST cluster (not in UniGene)	3.03	NCI-H345, RPWE-2, OVCA-R
311065	AW204582	Hs.224906	ESTs	3.03	PRSC_log, PRSC_con, NCH460
318623	AA355439	Hs.151547	ESTs	3.03	DU145, MB-MDA-435s, HT29
	AA617735		EST singleton (not in UniGene) with exon	3.03	CALU6, BT474, MB-MDA-435s
	AA774567	Ha 121774		3.03	EB, NCI-H460, Caco2
	U66199		fibroblast growth factor 11	3.03	HT29, DU145, PC3
	000133	N3.249 100			
336202			CH22_FGENES.719_6	3.02	NCI-H69, NCI-H23, NCI-H23
			H sapiens mRNA; cDNA DKFZp586H021 (fro	OM	3.02 EB, DU145, CALU6
	AJ343966	Hs.158528	ESTs	3.01	Caco2, EB, NCI-H69
335608			CH22_FGENES.582_3	3.01	NCI-H23, NCI-H520, NCI-H345
330058			CH.17_p2 glj6634847	3.01	OVCA-R, HT29, LnCap
	AA071215		EST cluster (not in UniGene) with exon h	3.01	MCF7, RPWE-2, MB-MDA-453
	Al299617		EST singleton (not in UniGene) with exon		
		11- 202042		3	MB-MDA-231, LnCap, BT474
	AL119445	H8.2U3213		3	NCI-H23, NCI-H520, NCI-H460
336232			CH22_FGENES.736_7	3	HT29, BT474, MB-MDA-231
334915			CH22_FGENES.457_4	3	NCI-H345, PRSC_con, NCI-H69
329116			CHLX_hs gi[5868650	3	NCI-H69, PRSC_con, RPWE-2
333495			CH22_FGENES.168_5	3	OVCA-R, NCI-H69, NCI-H345
	AI738488	He 115838		2.99	HT29, PRSC_con, DU145
			DKFZP564F1422 protein	2.99	
					EB, A549, MCF7
	AW367294			2.99	DU145, DU145, OVCA-R
	A1052093			2.99	NCI-H345, DU145, NCI-H520
301019	Al147356	Hs.98722	ESTs	2.99	NCI-358, NCI-H69, MB-MDA-435s
315213	AA587773	Hs.136494	ESTs	2.98	MB-MDA-231, BT474, LnCap
339251			CH22 BA354112.GENSCAN.7-5	2.98	NCI-H69, PRSC_log, HT29
	T05645		EST cluster (not in UniGene) with exon h	2.97	BT474, NCI-H345, LnCap
	AI174603	He 255932		2.97	DU145, A549, OVCA-R
	ABUZDSSS	MS.ZU4121	KIAA1030 protein	2.97	LnCap, DU145, PC3
327624			CH.04_hs g15867871	2.97	EB, DU145, LnCap
329029			CH.X_hs gi[6525302	2.96	NCI-H69, PRSC_log, LnCap
317040	AA868584	Hs.126154	ESTs	2.96	DU145, EB, LnCap
328016			CH.06_hs gij5902482	2.96	NCHH345, PRSC_con, DU145
312674	AI762475	Hs.151327	ESTs; Moderately similar to IIII ALU SUB	2.96	OVCA-R, NCI-H69, NCI-H69
		Hs.127826		2.96	OVCA-R, DU145, MB-MDA-231
			ESTs; Weakly similar to 25 kDa trypsin i	2.95	NCI-358, NCI-H460, Caco2
	AJ078446			2.95	NCI-H460, NCI-H23, NCI-358
	AW292933			2.94	EB, DU145, OVCA-R
312757	Al285970	Hs.183817	ESTs	2.94	DU145, LnCap, LnCap
316507	Al381515	Hs.158381	ESTs ·	2.94	PRSC_con, PRSC_log, RPWE-2
302278	AF018080	Hs.173730	Mediterranean fever	2.93	EB, NCI-H69, DU145
	AW173166			2.93	NCI-H345, LnCap, LnCap
	AA340724			2.92	
336632	7010121	1 152 17020		•	EB, Cacc2, HT29
			CH22_FGENES.13-2	2.92	NCI-H69, NCI-H345, MB-MDA-231
328886			CH.07_hs gli6588003	2.92	HT29, PC3, LnCap
301859			EST cluster (not in UniGene) with exon h	2.92	LnCap, EB, EB
	AA329856			2.92	PRSC_con, PRSC_log, RPWE-2
315426	Al391486	Hs.128171	ESTs .	2.92	CALU6, EB, A549
	AF086242		EST cluster (not in UniGene)	2.92	Caco2, OVCA-R, DU145
	AA627561			2.91	EB, HT29, DU145
327982	7402001	I IO. TOZYTO			
	AMERICA	11- 404744	CH.06_hs gli5868216	2.91	LnCap, MB-MDA-453, NCI-H69
	Al052358			2.91	NCHH460, NCHH520, RPWE-2
	AA527650	HS.156037		29	PRSC_con, RPWE-2, MB-MDA-231
339032			CH22_DA59H18.GENSCAN.25-1	2.9	NCI-H69, PRSC_con, RPWE-2
308379	AJ623950	Hs.2186	eukaryotic translation elongation factor	2.89	BT474, MB-MDA-231, HT29
	T87714	Hs.221665		2.88	Caco2, MB-MDA-453, MCF7
	AJ434156		EST singleton (not in UniGene) with exon	2.88	NCI-H520, IMCF7, NCI-H23
		He 181165	eukaryotic translation elongation factor	2.88	Caco2, NCI-H69, NCI-H345
	AA336019			2.88	MB-MDA-453, DU145, EB
	N34929	Hs.171984		2.86	MB-MDA-453, PC3, MCF7
320016	H57622	Hs.194574	ESIS	2.86	PRSC_con, RPWE-2, PRSC_log
317923	AW450544	Hs.220751	ESTs	2.86	NCI-H345, PRSC_con, PRSC_log
	X17033	Hs.1142	Integrin; alpha 2 (CD498; alpha 2 subuni ·	2.86	PC3, BT474, CALU6
			Rhesus blood group-associated glycoprote	2.85	DU145, HT29, MB-MDA-231
345002	Al221325	He 210000	FSTe		PRSC_con, RPWE-2, NCI-H345
				2.84	
			ESTs; Wealdy similar to hypothetical L1	2.83	HT29, MB-MDA-231, BT474
	A1633205			2.83	Caco2, MB-MDA-453, A549
310941	A1453402	Hs.173705	ESTs; Weakly similar to IIII ALU CLASS C	2.83	NCI-H345, MCF7, Caco2
	AJ911488			2.83	LnCap, Caco2, NCHH460
	AW273128			2.82	BT474, LnCap, RPWE-2
3					

	Al582758	Hs.17056		2.82	EB, MB-MDA-453, LnCap
	AL039822	Hs.20760		2.82	PC3, HT29, CALU6
325410	A1565458	Ll- 446201	CH.12_hs gij5866921	2.81	MB-MDA-453, PRSC_con, NCI-358
334244		HS. 1 (030)	CH22_FGENES.365_5	2.81 2.81	PRSC_con, EB, RPWE-2
	AW025709	}	EST singleton (not in UniSene) with exon	2.81	OVCA-R, PC3, MB-MDA-453 NC1+1460, NC1+123, NC1-358
328467			CH.07_hs glj5868434	2.81	EB, OVCA-R, HT29
	AW250501	1	EST cluster (not in UniGene)	2.81	BT474, NCI-H23, MB-MDA-231
326412			CH_19_hs gl5867362	2.81	BT474, PRSC_Jog, RPWE-2
328462	AA309616		EST cluster (not in UniGene) with exon h	2.8	CALUS, NCHH345, DU145
335157			CH.07_hs gl[5868433 CH22_FGENES.501_7	2.8 2.8	BT474, CALU6, MCF7
	AA007259	Hs.255853		2.79	NCHH69, NCHH345, PRSC_log OVCA-R, DU145, LnCad
	A)695047	Hs.202395		2.79	DU145, MB-MDA-435s, PC3
	AI435973	Hs.128056		2.79	NCI-H460, NCI-358, DU145
	A1377596 AW469180		transmembrane 4 superfamily member 1	2.79	A549, PC3, OVCA-R
			ESTs; Moderately similar to hypothetical	2.79 2.79	OVCA-R, MCF7, EB
	ALB70248	. 100220101	EST singleton (not in UniGene) with exon	2.78	PC3, OVCA-R, DU145 BT474, MB-MDA-231, EB
329107			CH.X_hs gij5868626	2.78	DU145, MCF7, MB-MDA-435s
313975	AW025024	Hs.65114	keratin 18	2.78	Caco2, EB, DU145
330901	AA157818	Hs.238380	Human endogenous retroviral protease mRN		PC3, NCI-H520, BT474
329853	R06249	Hs.13911	CH.14_p2 aff6682295	2.78	OVCA-R, MB-MDA-453, MCF7
	AF088076		EST cluster (not in UniGene)	2.78 2.77	BT474, BT474, HT29 NCHH345, Caco2, LnCap
326806			CH.20_hs qi6469835	2.77	NCI-H69, NCI-H345, MB-MDA-231
314661	AA436432		EST cluster (not in UniGene)	2.77	NCI-H460, MB-MDA-435s, CALU6
	AF075082	11 400-0-	EST cluster (not in UniGene)	2.77	NCI-358, NCI-H460, Caco2
	AA417078			2.77	DU145, EB, CALU6
327739	Al797955	TS-2000/0	ESTs; Wealthy similar to D(4) DOPAMINE RE CH.05_hs gij5867942	2.76	NCI-H69, RPWE-2, PRSC_con
	AI445116		EST singleton (not in UniGene) with exon	2.76	EB, PC3, LnCap LnCap, HT29, MB-MDA-231
	N56866	Hs.237507		2.76	MB-MDA-453, MCF7, OVCA-R
	AA418599		caveolin 3	2.75.	MB-MDA-231, NCI-H345, BT474
	AA533505	Hs.185844	T.I.T.	275	PRSC_con, OVCA-R, EB
335565	AA916176		CH22_FGENES.579_1 EST singleton (not in UniGene) with exon	2.75	OVCA-R, EB, A549
	N54803		yv31d2.s1 Soares fetal liver spleen 1NFL	2.74	EB, LnCap, DU145
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		3' similar to contains L1.13 L1 repetit	2.74	DU145, EB, CALU6
	N90762	Hs.159454		2.74	NCI-H69, NCI-H345, PRSC_log
	AW299459		EST cluster (not in UniGene) with exon h	2.74	EB, A549, Caco2
325513 337236			CH.12_hs gij6017035 CH22_FGENES.639-2	2.74 2.74	MB-MDA-231, NCI-H345, BT474
	AW407892	Hs.244807		2.74	MCF7, MB-MDA-453, NCI-H69 BT474, NCI-H345, NCI-H69
339266			CH22_BA354I12.GENSCAN.10-4	2.73	CALUE, DU145, OVCA-R
			ESTs; Wealthy similar to KIAA0422 [H.sapi	2.73	NCI-H345, RPWE-2, PRSC_log
	R00099 AW449673	Hs.193642		2.72	LnCap, PC3, OVCA-R
	T31689	Hs.98518		272 271	DU145, EB, MB-MDA-435s
	AA629988	. 200010	EST singleton (not in UniGene) with exon	271	PRSC_con, PRSC_log, RPWE-2 DU145, DU145, NCI-358
315396	AW296107	Hs.152686		2.69	OVCA-R, Caco2, EB
	AI908374		EST cluster (not in UniGene)	2.69	RPWE-2, LnCap, PC3
309119	A1927384 A19444037	HS.228499	EST; Moderately similar to PK-120 precur	2.69	LnCap, NCI-H23, NCI-358
324316	AW444937 Al291330	ПЭДЭЭНОД	EST cluster (not in UniGene)	2.68 2.68	Caco2, OVCA-R, HT29 NCI-H460, Caco2, PRSC_log
	AA425688	Hs.41641	ESTs; Weakly similar to CAGH4 [H.sapiens	2.68	MB-MDA-435s, NCI-H520, NCI-H460
339116			CH22_DA59H18.GENSCAN.49-4	2.68	DU145, EB, CALU6
		Hs.168587		2.68	PRSC_con, OVCA-R, PRSC_log
318728	AA584540		EST cluster (not in UniGene) EST singleton (not in UniGene) with exon	2.68	LnCap, Caco2, PC3
		Hs. 191659	EST's; Wealthy similar to IIII ALLI CLASS E	2.68 2.68	BT474, OVCA-R, RPWE-2 NCI-H345, PRSC_con, EB
	AB002302		KIAA0304 gene product	2.67	NCI-358, OVCA-R, Caco2
305406	AA723860		EST singleton (not in UniGene) with excm	2.66	OVCA-R, EB, MCF7
	H08778	Hs.133521	ESTs	2.66	EB, PC3, OVCA-R
	Al871129 W76021	Hs.172597		2.66	NCIH23, NCIH520, NCIH460
	AW157424	He 165954		2.66	DU145, OVCA-R, PC3
		Hs.242447		2.66 2.65	eb, Ovca-r, C2002 Prsc_001, A549, HT29
	AF062275		EST cluster (not in UniGene) with exon h		NCI-H23, BT474, MCF7
		Hs.209002	ESTs; Wealtly similar to IIII ALU SUBFAMI	2.65	PC3, EB, OVCA-R
		Hs.159732			PRSC_con, PRSC_log, NCHH69
300694	AA063406 R23313				BT474, EB, MCF7
336538	. الحص				EB, OVCA-R, DU145 DU145, NCI-H460, NCI-358
	AA829961		MON 1 4 4 11 15 40 -		LinCap, OVCA-R, EB
328134			A11 00 1 Propagator		LinCap, EB, CALUS

32933	)		CHLX_hs gl[5868806	2.64	EB, CALU6, DU145
	Ai042101		EST cluster (not in UniGene)	2.64	NCI-H345, MB-MDA-231, PRSC_log
32801			CH.06_hs gif5902482	2.63	BT474, HT29, MB-MDA-231
	A1879831 AL042966		EST singleton (not in UniGene) with exon EST cluster (not in UniGene)	2.63 2.62	BT474, EB, NCH+123 DU145, A549, CALU6
	AA476817		EST cluster (not in UniGene)	2.62	EB, A549, CALU6
	775247		EST cluster (not in UniGene) with exon h	2.62	HT29, BT474, NCI-H345
	AW057547		EST singleton (not in UniGene) with exon	2.62	NCI-H23, PRSC_con, LnCap
	2 A1864270		·	2,62	CALU6, MB-MDA-231, BT474
335993	AW103055	H9.244230	CH22_FGENES.656_6	2.62 2.61	BT474, MB-MDA-231, MB-MDA-453 NCI-H460, NCI-358, NCI-H520
	, A1056776	Hs.133397		2.6	EB, CALU6, HT29
			ESTs; Weakly similar to KIAA0862 protein	2.6	DU145, A549, PC3
	Al540051			2.6	OVCA-R, NCHH69, MCF7
	AA918320			2.6	PC3, MB-MDA-453, DU145
335108	A1698132	HS.201923	CH22_FGENES.494_14	2.6 2.6	LnCap, EB, NCI-H345 NCI-H69, NCI-H345, MB-MDA-231
	Al417526	Hs.184636		2.59	PC3, DU145, OVCA-R
	AW452773			2.59	NCI-H460, MB-MDA-453, NCI-H23
	F13458		EST cluster (not in UniGene)	2.59	LnCap, NCI-H460, MB-MDA-231
	) a1377746   aw135854			2.59 2.59	HT29, NCI-358, NCI-H345
	AA249804	DS. 192400	EST cluster (not in UniGene)	2.59	DU145, EB, CALU6 NCI-H69, NCI-H345, NCI-H345
	AW247670		EST cluster (not in UniGene) with exon h	2.59	NCI-H345, RPWE-2, PRSC_log
	AA666396			2.58	PRSC_log, PRSC_con, RPWE-2
	T88698	Hs.163862		2.58	DU145, EB, OVCA-R
	W23285 AW241910	Ho 122254	EST cluster (not in UniGene)	2.58 2.58	NCI-H69, MB-MDA-435s, PC3 MCF7, HT29, BT474
	AF075092	113.122234	EST cluster (not in UniGene)	2.58	PC3, OVCA-R, HT29
	T82331	Hs.127453		2.58	A549, CALU6, Caco2
339071			CH22_DA59H18.GENSCAN.34-1	2.58	CALU6, DU145, EB
	AW389509			2.57	OVCA-R, MB-MDA-231, BT474
	A1285898 AA863395	TIS. 1 10007	EST cluster (not in UniGene)	2.57 2.57	OVCA-R, DU145, EB NCH+520, PRSC_con, NCL358
		Hs.120884	ESTs; Weakly similar to RAS-RELATED PRO		2.57 LnCap, DU145, MB-MDA-453
327888			CH.06_hs gi 5868149	2.56	NCI-H345, MB-MDA-435s, RPWE-2
336149		11- 400000	CH22_FGENES,706_5	2.56	NCI-H69, PC3, A549
372816	H74319	Hs.188620	ES18 CH.06_hs gij5867994	2.56 2.56	EB, Caco2, NCI-H460 NCI-358, NCI-H520, NCI-H23
	AI911173	Hs.213722		2.55	NCI-H345, NCI-H460, MB-MDA-231
336958			CH22_FGENES.367-1	2.55	HT29, CALU6, CALU6
	W27919	Hs.32944	inositol polyphosphate-4-phosphatase; ty	2.55	NCI-H460, NCI-H23, HT29
	AW452360 N78656	Hs.161535		2.55 2.55	NCI-H345, NCI-H69, PRSC_con
	AW082954	115.101333	EST singleton (not in UniGene) with exon	2.55 2.55	NCI-H345, PRSC_con, PRSC_log BT474, MB-MDA-231, MCF7
337289			CH22_FGENES.672-8	2.54	BT474, HT29, MB-MDA-231
	Al570943	Hs.246280		2.54	Caco2, MB-MDA-435s, MB-MDA-453
328053			CH.06_hs gij5902482	2.54	MB-MDA-231, DU145, MB-MDA-453
327566	Al193189		EST singleton (not in UniGene) with exon CH.03_hs gij5867811	2.53 2.53	HT29, CALU6, MB-MDA-231 NCI-H69, NCI-H520, NCI-H345
326338			CH.17_hs gij6056311	2.53	PC3, A549, DU145
		Hs.159130	ESTs; Moderately similar to IIII ALU SUB	2.53	DU145, EB, PC3
	Al245683	11 404044	EST singleton (not in UniGene) with exon	2.52	NCI-H23, NCI-H520, NCI-358
	AA412371 AF147315	MS.121344	EST cluster (not in UniGene)	2.52 2.52	EB, DU145, OVCA-R PRSC_con, RPWE-2, NCI-H69
	AW081897			2.52	NCI-H345, LnCap, DU145
336125			CH22_FGENES.701_12	2.51	NCI-H69, LnCap, DU145
	A)692908	Hs.181873		2.51	NCI-H23, NCI-358, NCI-H520
335523			CH22_FGENES.572_3	2.51	HT29, BT474, OVCA-R HT29, NCHH460, MB-MDA-453
327585 323183	AW393850		CH.03_hs gij5867825 EST cluster (not in UniGene)	.2.51 2.51	MB-MDA-231, LnCap, RPWE-2
			ESTs; Moderately similar to !!!! ALU SUB	2.51	EB, DU145, DU145
	Al359782	Hs.137312		2.5	CALU6, HT29, DU145
	AA805276	11- 404075	EST singleton (not in UniGene) with exon	2.5	MB-MDA-453, NCI-H460, NCI-H23
	W90131 Al540243	Hs.184875 Hs.113817		2.5 2.5	NCI-H69, EB, A549 NCI-H345, PRSC_con, MB-MDA-231
				25 25	MCF7, MB-MDA-453, MB-MDA-435s
	AA886874		EST singleton (not in UniGene) with exon	2.5	NCI-358, NCI-H23, NCI-H520
336633			CH22_FGENES.13-3	2.5	NCI-H69, NCI-H345, PRSC_log
	AA577793		EST singleton (not in UniGene) with exon	2.49	NCI-H69, BT474, MB-MDA-231
327925 336055			CH.06_hs gi[5868172 CH22_FGENES.683_4	2.49	NCI-358, NCI-358, NCI-1460 EB, HT29, MB-MDA-231
328888			CH.07_hs gi[6588003	2.49 2.48	MB-MDA-435s, MB-MDA-453, PRSC_log
	AW016694	Hs.197689		2.48	NCI-H345, MCF7, PC3
327155			CH.01_hs gi[5867549	2.48	NCI-H69, MB-MDA-231, NCI-H345
334907			CH22_FGENES.453_2	2.48	DU145, NCHH345, MB-MDA-231

	AA910236	Hs.139469	ESTs	2.48	DU145, A549, A549
339435			CH22_DJ579N16.GENSCAN.18-10	2.48	NCI-H69, MCF7, BT474
334172			CH22_FGENES.349_5	2.48	NCHH69, NCHH345, PRSC_log
	AA299525		EST cluster (not in UniGene)	2.48	NCI-358, NCI-H23, NCI-H460
336772 326957			CH22_FGENES.156-1	2.47	NCI-358, NCI-358, NCI-123
	AI586615	U- 200770	CH.21_hs gli6469836	2.47	BT474, RPWE-2, PRSC_con
	AB033100	П\$.ZW//0	EST; Weakly similar to SALIVARY PROLINE		MCF7, MB-MDA-453, MB-MDA-435s
313149	AW291092	He 2010ER	EST cluster (not in UniGene)	2.47 2.47	EB, CALU6, A549 NC1-H345, PRSC_con, RPWE-2
338325		- 10000	CH22 EM:AC005500.GENSCAN.307-7	2.46	BT474, LnCap, EB
	Al368880		EST singleton (not in UniGene) with exon	2.46	NCHH23, PRSC_log, NCHH520
311525	AJ799444	Hs.247095	ESTs; Moderately similar to IIII ALU SUB	246	PRSC_con, PRSC_log, NCHH345
337023			CH22_FGENES.433-12	2.46	OVCA-R, CALUB, PRSC_con
	Al361798	Hs.164675		2.45	LnCap, DU145, CALU6
	AL137382	11- 407454	EST cluster (not in UniGene) with exon h	2.45	LnCap, MB-MDA-231, CALU6
	AL079289 Al097439		H sapiens mRNA full length insert cDNA c	2.45	BT474, MB-MDA-231, MB-MDA-453
3143R4	A4535840	He 162203	ESTs; Wealdy similar to alternatively sp	2.45 2.45	NCH460, MB-MDA-453, NCH345 OVCA-R, PC3, EB
326763	1400010	I IS. IGEEDS	CH.20_hs gij6598307	245	NCI-H69, NCI-H345, RPWE-2
	AW408392		EST cluster (not in UniGene)	2.45	Caco2, NCI-H460, NCI-H23
	AA586368			2.45	PRSC_con, NCH+345, MB-MDA-231
	AW237699			2.44	NCI-H345, PRSC_log, PRSC_con
	AW299374		EST cluster (not in UniGene)	2.44	PC3, DU145, OVCA-R
336510			CH22_FGENES.834_5	2.44	NCI-H69, RPWE-2, PRSC_con
326876		U- 400400	CH.20_hs gi 6682507	2.44	NC1H23, NC1H460, NC1H520
	M78728	Hs.182426	nbosomal protein S2	2.44	NCHH23, NCHH460, Caco2
			ESTs; Moderately similar to thyroid horn	2.44	NCI-H345, NCI-H69, RPWE-2
	70.000	1000110	component TRAP150 [H.saplens]	2.44	DU145, LnCap, CALU6
315974	AW029203	Hs.191952		2.43	EB, DU145, OVCA-R
322970	A1885052	Hs.142287	ESTs; Wealty similar to IIII ALU CLASS F	2.43	NCIH345, RPWE-2, EB
317733	AI028257	Hs.132317	ESTs	2.43	CALU6, RPWE-2, OVCA-R
	AA748749	Hs.136742		2.42	NCHH460, NCH358, NCHH520
	AA305198 AA969121	He 25/206	EST cluster (not in UniGene)	2.42	PRSC_con, NCHH460, RPWE-2
	AA883831			2.41 2.41	MCF7, OVCA-R, PC3 PRSC_con, PRSC_log, RPWE-2
	AI763350		EST singleton (not in UniGene) with exon	2.41	RPWE-2, NCI-H69, NCI-H345
330166			CH.02_p2 gij6648220	2.41	CALU6, DU145, A549
	AW451400			2.41	NCI-358, NCI-358, NCI-H23
320572	Al929508	Hs.159590	lymphocyte antigen 6 complex; locus H	2.41	CALU6, HT29, A549
	Al287341 N91109	Hs.154029 Hs.54681	ESTs; Wealthy similar to TRANSCRIPTION FA		OVCA-R, Caco2, MB-MDA-231
	AW393528			2.41 2.41	NCI-H23, NCI-H520, NCI-358
	Z43383		ESTs	24	NC1-H69, NC1-H345, PRSC_0011 NC1-358, NC1-H23, NC1-H520
334958			CH22_FGENES.465_27	24	DU145, PRSC_con, RPWE-2
323570	AL038623	Hs.208752	ESTs; Wealty similar to IIII ALU SUBFAMI	2.4	OVCA-R, EB, BT474
301685	W67730		EST cluster (not in UniGene) with exon h	2.4	MB-MDA-231, NCI-H345, EB
	AW163324		EST cluster (not in UniGene) with exon h	2.4	RPWE-2, PRSC_log, NCI-H345
325702	N40004		CH.14_hs gi[5867028	2.4	NCI-H23, NCI-H460, NCI-H520
	N48261 Al880051	Hs.127171	EST singleton (not in UniGene) with exon	2.4 2.4	MB-MDA-231, RPWE-2, PRSC_Jog
330338			CH.08_p2 gij5457162	24	RPWE-2, EB, PRSC_con DU145, EB, LnCap
327274				2.4	OVCA-R, DU145, MB-MDA-231
325953			CH.16_hs gij5867140	24	MB-MDA-453, MB-MDA-435s, MCF7
333281			CH22_FGENES.128_7	2,4	NCI-H23, HT29, DU145
	AW079559			2.39	EB, CALU6, Caco2
	Al800251			2.38	MB-MDA-231, BT474, HT29
334257	AA640770		CH22_FGENES.367_5	2.38	HT29, NCI-358, MB-MDA-231
	AA534325			2.38 2.38	EB, OVCA-R, MB-MDA-453 NC1-H69, NC1-H345, PRSC_log
				2.38	LnCap, DU145, DU145
				2.38	HT29, NCI-H23, NCI-H23
338235			CH22_EM:AC005500.GENSCAN.260-16	2.38	NCI-H69, NCI-H460, NCI-H23
	AW297302			2.38	PRSC_log, PRSC_con, PRSC_con
	AW451327			2.38	A549, DU145, EB
324745	AJ/4212U			2.38	NCI-358, NCI-H460, BT474
318765	742071	Hs.23961		2.38 2.38	NCHH69, PRSC_con, PRSC_log LnCap, NCHH23, NCHH520
	AI239811	Hs.157491		2.36 2.37	OVCA-R, DU145, EB
	AA649244			237	CALU6, MB-MDA-435s, MB-MDA-453
				2.37	EB, DU145, OVCA-R
322774	AA131111			2.37	OVCA-R, EB, A549
335745			CH22_FGENES.601_16	2.37	PRSC_log, PRSC_con, NCHH69
	A1979100	Hs.211518		2.37	NCHH69, NCHH345, PRSC_log
338809	Al480204	Hs.177131		2.37	NCI-H23, NCI-H69, NCI-H520 NCI-H345, PRSC_001, PRSC_log
J IUJUJ	·			2.37	MOTION, I NOU_COIL, FNOU_log

00400-		11 447000			
	Al247480			2.37	BT474, NCI-H69, HT29
	AA299492	Hs.168166		2.37	LnCap, EB, MB-MDA-453
335747			CH22_FGENES.601_20	2.36	NCHH69, LnCap, PRSC_con
322362	AF039697		EST cluster (not in UniGene)	2.36	DU145, PRSC_con, NCHH345
314430	N76302	Hs.78110	ESTs; Wealty strillar to F17A9.2 [C.elega	2.36	DU145, MB-MDA-453, CALU6
304831	AA586422		EST singleton (not in UniGene) with exon	2.36	NCHH23, NCHH460, CALU6
337432			CH22_FGENES.765-1	2.36	MB-MDA-231, BT474, HT29
305984	AA887654		EST singleton (not in UniGene) with exon	2.36	DU145, HT29, CALU6
	AW134523	Hs.247186		2.36	DU145, A549, CALU6
	AI889109	Hs.212032		2.36	NCI-358, NCI-H520, NCI-H23
	A1679966			2.35	NCI-H460, Caco2, NCI-H23
334198			CH22_FGENES.354_4	2.35	NCHH69, PRSC_log, PRSC_con
	Al217440	Hs.143873		2.35	Caco2, A549, PC3
333348			CH22_FGENES.139_15	2.35	CALU6, DU145, LnCap
325408			CH.12_hs gl 5866921	2.35	NCI-H460, NCI-H520, NCI-H23
	AA076743	Hs 129770		2.35	NCHH23, MB-MDA-435s, NCH1345
	AW293701	112.125.110	EST singleton (not in UniGene) with exon	2.35	NCI-H460, NCI-H23, NCI-H520
	R55497	He 183941	ESTs; Moderately similar to H beta 58 ho	2.35	DU145, CALU6, NCI-H520
	N51583	Hs.133756		2.35	NCI-H23, NCI-H520, NCI-358
	T16981	Hs.21963		2.34	NCI-H345, PRSC_log, NCI-H460
327710	110301	1521500	CH.04_hs gij5867860	2.34	BT474, MB-MDA-231, NCI-H345
	AA961356		EST singleton (not in UniGene) with exon	2.34	BT474, MB-MDA-231, MB-MDA-435s
	AA614308		EST singleton (not in UniGene) with exon	2.34	CALU6, HT29, MB-MDA-453
334015	744014500		CH22 FGENES.313 7	2.34	HT29, MB-MDA-231, BT474
	AJ091370	Hs.134852		2.33	CALU6, NCI-H520, DU145
	AI057134	113.134002		2.33	
337697	M1037 134		EST singleton (not in UniGene) with exon	2.33	PC3, DU145, EB
329630			CH22_EM:AC000097.GENSCAN.88-1	2.33	RPWE-2, PRSC_log, NCI-H345
326577			CH.11_p2 gij6729060 -	2.33	NCHH520, NCHH23, NCHH460
333428		•	CH.19_hs gij5867317 CH22_FGENES.149_1	2.33	NCI-H460, NCI-358, NCI-H23 NCI-H345, PRSC_con, RPWE-2
	A1/70304	Ho 155405	ESTs; Weakly similar to IIII ALU SUBFAMI	2.33	OVCA-R, MCF7, MCF7
	AA714311	15.150100	EST cluster (not in UniGene)	2.33	NCH1460, NCH358, NCH123
	AJ133798		EST cluster (not in UniGene) with exon h	2.32	NCHH23, NCHH460, NCHH520
325801	75100100		CH.14_hs gil6552451	2.32	PRSC_log, MCF7, NCI-H23
	AA609698	Hs 112389		2.32	DU145, HT29, PC3
	AA243633			2.32	DU145, MCF7, PC3
	AA669615			2.31	DU145, NC1+1345, EB
	NM_00589		EST cluster (not in UniGene)	231	A549, OVCA-R, PC3
	T98289		EST cluster (not in UniGene)	2.31	NCHH23, Caco2, NCHH69
	AA078293		EST cluster (not in UniGene)	2.31	DU145, OVCA-R, EB
	AA527359	Hs.154366		231	NCI-H345, DU145, EB
336455			CH22_FGENES.829_13	2.31	NCI-H345, PRSC_con, RPWE-2
	AW292127	Hs.144758		2.31	MCF7, DU145, OVCA-R
	H93135	Hs.41840		2.31	Caco2, NCI-H460, NCI-H23
333054			CH22_FGENES.73_8	2.31	NCI-H69, NCI-358, NCI-H23
308598	AJ719237		EST singleton (not in UniGene) with exon	2.31	OVCA-R, CALU6, Caco2
327059			CH.21_hs gi]6531965	2.3	NCI-H460, LnCap, LnCap
334120			CH22_FGENES.333_1	2.3	NCI-H69, RPWE-2, MB-MDA-435s
324154	AI457449	Hs.192817	ESTs	2.3	NCI-H460, MB-MDA-453, NCI-358
326509			CH.19_hs gi[6682496	2.3	NCI-H345, CALU6, OVCA-R
316855	AW291384	Hs.254974	ESTs	2.3	NCHH345, NCHH460, BT474
337918			CH22_EM:AC005500.GENSCAN.66-4	2.3	RPWE-2, NCI-H345, PRSC_log
317471	AI825351	Hs.144084	ESTs	2.29	HT29, OVCA-R, DU145
331023	N32599	Hs.5856	ESTs	2.29	OVCA-R, LnCap, A549
332231	N48008	Hs.102629	EST "	2.29	CALU6, DU145, EB
309912	AW339671		EST singleton (not in UniGene) with exon	2.29	MB-MDA-435s, PRSC_con, NCI-358
316427	Al241019	Hs.145644	ESTs	2.29	Caco2, HT29, EB
313329	AW293704	Hs.122658	ESTs	2.29	OVCA-R, DU145, Caco2
335019			CH22_FGENES.474_7	2.29	HT29, CALU6, MB-MDA-231
324394	F20654	Hs.152128	ESTs; Moderately similar to IIII ALU SUB	2.29	NCI-H345, MB-MDA-231, RPWE-2
339357			CH22_BA354I12.GENSCAN.31-2	2.29	NCI-H69, OVCA-R, BT474
322128	AI346033		EST cluster (not in UniGene)	2.28	NCI-H23, NCI-H520, NCI-H460
301310	A1239457	Hs.130794	ESTs	2.28	OVCA-R, DU145, MB-MDA-231
300623	AI929130	Hs.118261	ESTs; Moderately similar to finger prote	2.28	BT474, RPWE-2, PRSC_con
323409	AL135534		EST duster (not in UniGene)	2.27	NCI-H345, NCI-358, Cacc2
308406	AJ634885		EST singleton (not in UniGene) with exon	2.27 · ·	OVCA-R, EB, HT29
322518	Al133446		EST cluster (not in UniGene)	2.27	DU145, MB-MDA-435s, OVCA-R
338381			CH22_EM:AC005500.GENSCAN.330-10	2.27	NCHH69, PRSC_con, PRSC_log
316003	AA704584	Hs.119993	ESTS	2.27	NCI-358, NCI-H520, NCI-H23
	Al161024		EST singleton (not in UniGene) with exon	2.27	NCI-H345, DU145, RPWE-2
300356	AA758411	Hs.121335		2.27	LnCap, NCI-H460, Caco2
	AA431328	Hs.98660	ESTs	2.27	NCI-358, NCI-H520, CALU8
	H02566	Hs.191268	H saptens mRNA; cDNA DKFZp434N174 (tro	m	2.27 OVCA-R, BT474, BT474
305547	AA773111		EST singleton (not in UniGene) with exon	2.27	LnCap, DU145, BT474
312457	AA776743	Hs.191589		2.26	NCI-H345, RPWE-2, PRSC_con
333929			CH22_FGENES.300_2	2.26	HT29, CALU6, EB

319845	AA649011	Hs.187902	FSTs	2.26	LnCap, DU145, MCF7
	AI028393	1101000	EST singleton (not in UniGene) with exon	2.26	MB-MDA-435s, NCI-358, CALU6
	AI096832		EST singleton (not in UniGene) with exon	2.26	HT29, BT474, PC3
333312			CH22_FGENES.138_4	2.26	OVCA-R. DU145. PC3
334955			CH22_FGENES.465_24	2.25	RPWE-2, PRSC_con, NCH1345
312295	AA578233	Hs.173863		2.25	OVCA-R, DU145, NCHH345
	Al302124		EST singleton (not in UniGene) with exon	2.25	CALUB, CALUB, OVCA-R
	AA421989		EST cluster (not in UniGene)	2.25	OVCA-R, EB, A549
309767	AW271805		EST singleton (not in UniGene) with exon	2.25	DU145, NC+H460, CALU6
	AW410240		ribosomal protein L28	2.25	NCI-H69, NCI-H460, NCI-H520
312260	H05392	Hs.230597		2.25	Caco2, EB, DU145
327125			CH.21_hs gli6531971	2.25	HT29, NCI-358, BT474
316919	AA845382	Hs.204520		2.24	NCHH23, NCHH345, NCHH520
316361	A1433833	Hs.164159	ESTs; Wealthy similar to IIII ALU SUBFAMI	2.24	DU145, EB, PC3
315772	AW515373			2.24	OVCA-R, EB, LnCap
320236	H03688		EST duster (not in UniGene)	2.24	NCI-358, DU145, NCI-H23
315444	AW138821	Hs.221737	ESTs	2.24	NCI-358, CALU6, PRSC_con
333903			CH22_FGENES.294_1	2.24	MB-MDA-231, BT474, A549
335234			CH22_FGENES.515_3	2.24	NCHH69, PRSC_con, PRSC_log
333727			CH22_FGENES.256_1	2.23	MB-MDA-231, NCI-H69, BT474
	AA482009	Hs.105104		2.23	EB, NCI-H520, HT29
329611			CH.10_p2 gij3962478	2.23	BT474, HT29, MB-MDA-231
	AI783594	Hs.155718		2.22	BT474, MCF7, MB-MDA-231
327315			CH.01_hs g/j5867508	2.22	NCI-H69, EB, EB
	U83527		EST duster (not in UniGene)	2.22	EB, DU145, LnCap
	N49309	Hs.117012		2.22	A549, LnCap, DU145
	AA730472			2.22	OVCA-R, PC3, LnCap
	R97191	Hs.134106		2.22	BT474, MCF7, OVCA-R
	Z44631	Hs.21658		2.22	MB-MDA-453, DU145, CALU6
337895	41400000		CH22_EM:AC005500.GENSCAN.56-2	2.22	NCI-H345, PRSC_log, PRSC_con
	Al185762	I In 2000 4	EST singleton (not in UniGene) with exon	2.22	NCHH520, NCHH460, EB
	W76005	Hs.32094		2.21	EB, NCI-H345, PRSC_con
	X85153 AA340904		EST cluster (not in UniGene) with exon h	2.21	BT474, MB-MDA-231, MCF7
	D83777	Ho 75137	EST cluster (not in UniGene) KIAA0193 gene product	2.21	NCI-H460, NCI-H23, NCI-H520
	AF120491	113.73137		2.21 2.21	CALU6, A549, Caco2
326710	AF IZM31		EST cluster (not in UniGene) with exon h CH.20_hs gij5867593	2.21	NCH69, NCH345, PC3
	AAR25426	He 238832	ESTs; Weakly similar to IIII ALU SUBFAMI	2.21	NCH+1520, NCH-358, NCH+123 NCH+1345, DU145, NCH+169
337706	MULLINE		CH22_EMAC000097.GENSCAN.87-11	2.21	MB-MDA-435s, NCI-358, NCI-H520
339309			CH22_BA354I12.GENSCAN.22-7	2.21	BT474, HT29, PC3
	HG2724-H		Oncogene Tis/Chop, Fusion Activated	2.21	PRSC_con, NCI-H69, Caco2
	AI922972	Hs.196073		2.21	OVCA-R, MB-MDA-435s, DU145
	AF053356		multiple UniGene matches	22	NCHH69, HT29, NCHH23
	T55182	Hs.152571	ESTs; Highly similar to IGF-II mRNA-bind	2.2	OVCA-R, PC3, CALU6
315872	AW051819	Hs.204516	ESTs	2.2	LnCap, OVCA-R, EB
337904			CH22_EM:AC005500.GENSCAN.56-17	2.2	OVCA-R, LnCap, EB
308258	Al565612		EST singleton (not in UniGene) with exon	2.2	DU145, MB-MDA-231, CALU6
320965	H18166		EST cluster (not in UniGene)	2.2	DU145, EB, LnCap
333910			CH22_FGENES.295_3	2.2	DU145, MB-MDA-231, EB
300707	AA080921		EST cluster (not in UniGene) with exon h	2.2	BT474, MCF7, HT29
336011			CH22_FGENES.668_9	2.19	NCI-H460, BT474, NCI-H345
325712			CH.14_hs gl[5682473	2,19	NCH1460, NCH123, NCH358
	AF201832		EST cluster (not in UniGene)	2.19	PC3, RPWE-2, PRSC_con
335339			CH22_FGENES.535_16	2.19	HT29, PRSC_log, MCF7
	AA738436			2.19	DU145, EB, Caco2
	AA679426	HS.18/505		2.19	NCI-H345, PRSC_log, PRSC_con
337132	A IDC4054	11- 004000	CH22_FGENES.526-3	2.19	NCI-H69, NCI-H345, PRSC_con
	Al951651	NS.22923U		2.19	PRSC_con, MB-MDA-231, NCI-H23
325285 338280			CH.11_hs gij5866903	2.18	PRSC_con, PRSC_log, MB-MDA-231
	AI701635	Hs.207077	CH22_EM:AC005500.GENSCAN.290-11	2.18	PC3, NCI-358, HT29 RPWE-2, NCI-H345, NCI-358
330638			matrix metalloproteinase 17 (membrane-in	2.18	
326603	A05570	115.155501	CH.20_hs gil6056312	218	HT29, MB-MDA-435s, MB-MDA-453 CALUG, DU145, HT29
	AA412305		EST cluster (not in UniGene)	2.18 2.18	A549, OVCA-R, MB-MDA-435s
335451			CH22_FGENES.562_9	2.18	DU145, LnCap, CALU6
	Al203009	Hs.130664		2.18	NCI-H345, NCI-H69, NCI-H520
	AA334384	1 KM 100007	EST cluster (not in UniGene)	2.18	Caco2, PC3, NCI-H520
	AW205197	Hs 240951		2.18	NCI-358, A549, EB
304022			EST singleton (not in UniGene) with exon	2.18	NCI-H23, NCI-358, NCI-H460
330082	, <del>-</del>		CH.19_p2 gij6015314	2.18	NCI-H23, Caco2, Caco2
	AA363245	Hs.189831		2.18	BT474, HT29, MB-MDA-231
333932			CH22_FGENES.300 5	2.17 .	PC3, Caco2, EB
	AJ479071		EST singleton (not in UniGene) with exon	2.17	BT474, OVCA-R, OVCA-R
	U91510	Hs.123036	CD39-like 1	2.17	NCI-H520, NCI-358, NCI-H23
324432	AA464510	•	EST cluster (not in UniGene)	2.17	CALUS, RPWE-2, HT29
320882	AI832098		EST cluster (not in UniGene)	2.17	OVCA-R, PC3, BT474

	H03952		EST cluster (not in UniGene)	2.17	NCH460, NCH23, NCH358
315049	AW340486	Hs.121210	ESTs	2.17	NCI-H520, NCI-358, NCI-H23
	AA627127		EST singleton (not in UniGene) with exon	2.17	MB-MDA-231, MB-MDA-453, EB
	AI792785	Hs 130434		2.16	NCH1345, PRSC_can, PRSC_log
	A1653389			2.16	NCHH345, PRSC_con, LnCap
	AA872730				
	AA6/2/30	TIS. 120229		2.16	OVCA-R, PC3, MCF7
328863			CH.07_hs gl[6381929	2.16	PRSC_con, NCI+1345, NCI+1460
319373	R00371		EST cluster (not in UniGene)	2.16	PRSC_con, RPWE-2, NCI-H345
320069	T86541	Hs.189732	ESTs	2.16	NCI-H23, NCI-358, NCI-H345
320235	AF064090	Hs.129708	tumor necrosis factor (figand) superfami	2.16	NCI-H23, NCI-H460, NCI-H520
338880			CH22_DJ32I10.GENSCAN.6-2	2.16	BT474, MCF7, OVCA-R
	AI091349	Hs.161133		2.16	
					NCI-H23, NCI-H520, NCI-H460
	D86973	Hs.75354		2.16	A549, PC3, DU145
	AA406133	Hs.7482	KIAA0682 gene product	2.16	PC3, EB, MB-MDA-231
339019			CH22_DA59H18.GENSCAN.21-15	2.15	LnCap, EB, OVCA-R
306975	Al127042		EST singleton (not in UniGene) with exon	2.15	MB-MDA-435s, NCI-H520, NCI-358
318069	AI024557	Hs.131540	ESTs	2.15	Caco2, Caco2, BT474
312997	AW205686	Hs.135130	ESTs	2.15	NCI-H460, NCI-H23, NCI-358
	AA433935		DKFZP586H2123 protein	2.15	PRSC_con, HT29, CALU6
	7777	INCOUNT			
335049		11. 404049	CH22_FGENES.481_5	2.15	NCHH69, NCHH345, PRSC_log
	AA429772	M9.797610		2.15	MB-MDA-453, MB-MDA-435s, MCF7
330363			CH_X_p2 gi[3126882	2.15	NCI-H23, NCI-H460, NCI-358
322896	AW470296	Hs.144830	ESTs	2.15	HT29, CALU6, EB
321981	AA948204	Hs.127361	ESTs	2.15	MB-MDA-231, DU145, HT29
333294			CH22_FGENES.130_6	2.14	EB, DU145, MB-MDA-453
330170			CH.02_p2 gij6648220	2.14	HT29, MB-MDA-453, PC3
	Al123346	No 125241			
				2.14	LnCap, DU145, EB
	A1627352			2.14	NCHH520, NCHH23, LnCap
	- T10019	Hs 4194	ESTs	2.14	NCI-H460, NCI-H23, NCI-358
317182	AW183524	Hs.192298	ESTs	2.14	HT29, BT474, MB-MDA-435s
323644	AA310711	Hs.124340	ESTS	2.14	RPWE-2, PRSC_con, PRSC_log
308092	A1474896		EST singleton (not in UniGene) with exon	2.14	BT474, MCF7, MB-MDA-231
	AF086244		EST cluster (not in UniGene)	2.14	NCH1345, RPWE-2, PRSC_con
	AA746272		EST cluster (not in UniGene) with exon h	2.14	
		11- 400000			DU145, MB-MDA-453, EB
	AW439340			2.14	NCI-H23, NCI-H460, MB-MDA-435s
	A1249468	HS.228251		2.14	NCH460, NCL358, NCH23
338486			CH22_EM:AC005500.GENSCAN.382-8	2.14	NCH4520, NCH423, NCH469
301302	AI825444	Hs.210956	ESTs	2.14	BT474, HT29, MB-MDA-231
310591	Al650372	Hs.195979	ESTs	2.14	CALU6, CALU6, Caco2
316231	AA732301		EST cluster (not in UniGene)	2.14	NCI-H23, NCI-H520, NCI-358
326559			CH.19_hs gij5867310	2.14	DU145, NCHH460, NCHH23
	A A525204	He 20/000	ESTs; Weakly similar to IIII ALU SUBFAMI	2.13	OVCA-R, DU145, EB
	A1811303	Hs.143490	<del></del>	2.13	MB-MDA-453, MCF7, MB-MDA-435s
333895			CH22_FGENES.293_2	2.13	CALUS, LnCap, DU145
	Al567114	Hs.171454		2.13	DU145, CALU6, MB-MDA-453
	AA908472		EST singleton (not in UniGene) with exon	2.13	HT29, BT474, MB-MDA-231
333101			CH22_FGENES.79_6	2.13	NCHH345, NCHH69, PRSC_log
328544			CH.07_hs g15868486	2.13	NCI-H23, NCI-H69, PRSC_log
333355			CH22_FGENES.141_6	2.13	DU145, EB, CALU6
	AJ524519	Hs 239699		2.13	EB, NCI-H460, NCI-H345
	AA814956	1 1000000			
	AA014330		EST singleton (not in UniGene) with exon	2.13	NCI-H520, NCI-H460, NCI-358
327809	T4044F	11-00400	CH.05_hs gij5867968	2.13	HT29, PC3, OVCA-R
	T10115		ESTs	2.13	HT29, NCI-358, MB-MDA-231
		Hs.252784		2.13	PRSC_con, DU145, DU145
	AA029526			2.12	OVCA-R, A549, MB-MDA-435s
323704	AA319421	Hs.193577	ESTs	2.12	Caco2, LnCap, OVCA-R
328971			CH.08_hs glj6478806	2.12	NCI-358, NCI-H23, NCI-H520
325338			CH.11_hs gij5866883	2.12	LnCan, NCHH69, NCHH345
	AA282554	He 8003/	ESTs	2.12	NCI-H520, NCI-H23, Caco2
	717202307	113.03004			
327159		•	CH.01_hs gij5887550	2.12	EB, DU145, PC3
335180			CH22_FGENES.505_2	2.12	LnCap, NCI-H69, A549
338062			CH22_EM:AC005500.GENSCAN.162-3	2.12	PRSC_con, PRSC_log, NCI-H69
318350	AI636018	Hs.135538	ESTs	2.12	EB, HT29, DU145
312070	AW293140	Hs.108790	ESTs	2.11	Caco2, NCI-H23, A549
328314			CH.07_hs gij5868371	2.11	HT29, NCI-H23, NCI-H460
	A1033547	Hs. 132828		211	BT474, CALU6, MCF7
339246	7				CALUS, CALUS, BT474
			CH22_BA354112.GENSCAN_5-9	2.11	
329921	705000	U- 4047	CH.16_p2 gij6165205	2.11	BT474, MB-MDA-231, HT29
	Z25333	Hs.4947	ESTS	2.11	A549, NCHH460, NCHH520
	AA159323			2.11	NCI-H345, A549, PRSC_con
332729	AA058907	Hs.83190	fatty acid synthase	2.11	NCI-358, LnCap, MB-MDA-453
325448			CH.12_hs gli5866941	2.11	DU145, MCF7, CALU8
	AW188286	Hs.143612		2.1	EB. BT474, MB-MDA-231
	AI057634			2.1	NCI-H23, NCI-H460, BT474
	רוו אבשאמוא	197111999	KIAA1093 protein	2.1	OVCA-R, A549, CALU6
326309			CH.17_hs gl 5867277	2.1	MB-MDA-435s, NCHH69, MB-MDA-453

315406	AI823453	Hs.146625	ESTS	21	OVCA-R, DU145, EB
302376	AB007867	Hs.200480	KIAA0407 protein	21	OVCAR, Casso2, HT29
312181	AA417281	Hs.191595		2.1	OVCA-R, A549, DU145
334254			CH22_FGENES.366_4	21	LnCap, OVCA-R, DU145
		Hs.131562		21	A549, CALU6, EB
	W87704	Hs.65114		21	NCH+23, NCH+520, NCH+460
		Hs.211558	EST; Wealthy similar to N-copine [H.sapte	21 21	MB-MDA-435s, PRSC_con, NCHH460
308226	AI559106	Hs.181165	eukaryotic translation elongation factor	21	NCHH345, MB-MDA-231, PRSC_con EB, CALU6, OVCA-R
324279	AA501412	Hs.191688	ESTs; Wealty similar to Pro-Pol-dUTPase	2.09	OVCA-R, LinCap, PC3
337203			CH22_FGENES.591-3	2.09	NCHH69, NCHH345, MB-MDA-231
322346	AA227618	Hs.10882	HMG-box containing protein 1	2.09	HT29, BT474, MB-MDA-231
304470	AA426654	Hs.195188	glyceraldehyde-3-phosphate dehydrogenase		NCI-H23, CALU6, NCI-H520
325977	A A CE 4700		CH.16_hs gl[6249602	2.09	NCH+123, NCH+1520, HT29
	AA554758 Al301528		EST singleton (not in UniGene) with exon	2.09	MB-MDA-435s, NCI-H23, BT474
		Hs.160316		2.09 2.08	Caco2, EB, NCI-358
327341	7100000	1000.10	CHL01_hs gij6017016	2.08	PRSC_con, PRSC_log, NC1+1345 MB-MDA-231, PRSC_con, NC1+169
327431			CH.02_hs gij5867754	2.08	NCI-H23, NCI-358, NCI-H520
314685	AI870811	Hs.158709	ESTs; Wealty similar to KIAA0938 protein	2.08	MB-MDA-453, MCF7, OVCA-R
328624			CH.07_hs gij5868246	2.08	MCF7, NCI-358, RPWE-2
	AW303377	,	EST cluster (not in UniGene) with exon h	2.08	RPWE-2, PRSC_con, PRSC_log
336717	AM2004420	Un 474494	CH22_FGENES.81-1	2.08	BT474, HT29, MCF7
331287	AA4AOOR4	Hs.172971	ESTs; Weakly similar to p140mDia [M.musc	2.08	NCI-H23, NCI-H460, NCI-H69
	N62228	113.112311	EST singleton (not in UniGene) with exon	2.08 2.08	OVCA-R, EB, NCI-H345
		Hs.192311	ESTs	2.08	PRSC_con, PRSC_log, PRSC_log
325636			CH.14_hs glj5867002	2.08	NCI-358, NCI-H460, MB-MDA-453
336406			CH22_FGENES.823_21	2.08	HT29, EB, DU145
	F06529		EST cluster (not in UniGene) with exon h	2.08	LnCap, PRSC_log, PRSC_con
	R45159	Hs.221804		2.08	PRSC_con, LnCap, RPWE-2
334115	R21114	Hs.21383	CH22_FGENES.330_15	2.08	NCH123, NCH1520, NCH1460
	Al473682		EST singleton (not in UniGene) with exon	2.08 2.08	BT474, NCH469, HT29
	AI569456		EST singleton (not in UniGene) with exon	2.08	MB-MDA-435s, NCH+345, MB-MDA-231 LinCap, EB, PRSC_con
313038	AW451618	Hs.124195	ESTs	2.07	NCHH345, PRSC_con, LnCap
		Hs.144900		2.07	NCI-358, NCI-H23, NCI-H520
	AW292740	Hs.254815	A. L	2.07	Caco2, NCI-358, NCI-H520
334759	A1907447		CH22_FGENES.428_8	2.07	CALU6, HT29, NCI-H520
	AJ367417	He 105188	EST singleton (not in UniGene) with exon glyceraldehyde-3-phosphate dehydrogenase	2.07	NCI-H460, NCI-358, NCI-H23
	AW470753	113.133100	EST singleton (not in UniGene) with exon	2.07 2.07	HT29, MCF7, MB-MDA-435s NCHH345, PRSC_con, RPWE-2
	AA421160	Hs.9456	SW/SNF related; matrix assocd; actin de	2.07	EB, A549, PC3
		Hs.211038	ESTs	2.06	PRSC_con, RPWE-2, Caco2
	AA430709		EST cluster (not in UniGene) with exon h	2.06	RPWE-2, NCHH345, PRSC_con
333403	11050004	11. 400040	CH22_FGENES.144_21	2.06	OVCA-R, CALU6, PC3
	A1953261	Hs.169813		2.06	NCH1345, OVCA-R, NCH123
338594 334676			CH22_EM:AC005500.GENSCAN.435-4 CH22_FGENES.418_29	2.06 2.06	DU145, LnCap, EB
	A1198032	Hs.210356		2.06	MB-MDA-435s, NCI-H23, Caco2
	AJ949216			2.06	CALU6, EB, NCI-358
329752			CH.14_p2 gij6065777	2.06	CALU6, HT29, DU145
325085		Hs.4188		2.06 ·	EB, OVCA-R, MB-MDA-435s
		Hs.185375		2.06	OVCA-R, MB-MDA-453, MCF7
302074	AA3828/1	HS.132/94		2.06	LnCap, EB, NCI-H69
	AA079318		CH.17_hs glj6525295 zm98c2.s1 Stratagene coton HT29 (#937221	2.06	HT29, BT474, MB-MDA-453
330033	PHO! 30!10			2.06	DENIE 2 LeCon DESC con
302525	AF024690	Hs.248056		2.05 2.05	RPWE-2, LnCap, PRSC_con NCI-358, NCI-H23, DU145
	AA436673	Hs.29417	H sapiens mRNA; cDNA DKFZp586B0323 (fro	m	2.05 Caco2, DU145, A549
316322	AW296618	Hs.120637		2.05	BT474, MB-MDA-453, OVCA-R
321525			EST cluster (not in UniGene)	2.05	NCI-H23, PRSC_con, NCI-H520
	AA640579		man am a Number -	2.05	MB-MDA-231, BT474, HT29
326033				2.05	HT29, DU145, BT474
334730	AA704235		CH22_FGENES.424_5	2.05	BT474, EB, OVCA-R
320521		Hs.24743		2.05	MCF7, OVCA-R, MB-MDA-453
333515	1101101		*****	2.05 2.04	MB-MDA-453, MB-MDA-231, PC3 NCH-1345, RPWE-2, PRSC_com
	Al918672	Hs.213783		2.04	NCI-H460, NCI-H23, NCI-H520
324323	AA393739		EST cluster (not in UniGene)	2.04	OVCA-R, PC3, LnCap
	AA748889		EST singleton (not in UniGene) with excon	2.04	NCH1345, PRSC_log, CALU6
312162			EST cluster (not in UniGene)	2.04	NCI-H520, NCI-H23, NCI-358
330980		Hs.6659	ESTs	2.04	MCF7, MB-MDA-453, MB-MDA-435s
		Hs.130462		2.04	NCH+23, Caco2, NCH+69
303460 337435	W. (C) (33)	Hs.117900	OF 100 POET 150 Pro .	2.04	DU145, EB, CALU6
J. 100			orac corrections	2.03	NCHH345, OVCA-R, LnCap

305464	AA742425		EST singleton (not in UniGene) with exon	2.03	Calub, NCI+1520, NCI-358
	Al383496		EST singleton (not in UniGene) with exon	2.03	NCH+123, BT474, MB-MDA-231
	H89360		EST cluster (not in UniGene)	2.03	DU145, OVCA-R, MB-MDA-453
	AW205198	He 14914R		2.03	NC1-H23, NC1-H460, NC1-358
325886	////		CH.16_hs gl[5867087	2.03	NCH345, NCH345, RPWE-2
329719		•	CH.14_p2 gij6065785	2.03	NCI-H69, RPWE-2, PRSC_con
	AI972768		EST singleton (not in UniGene) with exon	2.03	LnCap, PRSC_con, RPWE-2
328277	71012100		CH.07_hs gij6004471	2.03	LnCap, RPWE-2, A549
	Al205705	Hs.147222		2.03	NCI-H460, NCI-358, NCI-H23
327203	70200700		CH.01_hs gij5867447	2.03	HT29, BT474, MB-MDA-231
	Al086683		EST singleton (not in UniGene) with exon	2.03	BT474, NCH1345, HT29
333339	Albootoo		CH22 FGENES.139_8	2.03	HT29, DU145, CALU6
	A)921875		EST cluster (not in UniGene)	2.03	BT474, BT474, MB-MDA-231
	AA584361		EST singleton (not in UniGene) with exon	2.03	NCI-H23, NCI-358, NCI-H460
	AL135125	Hs.13913	ESTs	2.02	DU145, EB, A549
	AA828713	152.100.10	EST cluster (not in UniGene)	2.02	NCLH345, PRSC_con, PRSC_log
	AI381019		EST singleton (not in UniGene) with exon	2.02	HT29, MCF7, MB-MDA-453
	AA608983		al5d4.s1 Soares_testis_NHT H sapiens cDN		PRSC_con, NCI-H345, RPWE-2
	AI684571	Hs.175831		2.02	NCI-H460, Caco2, NCI-358
335721	AUUNII	110.170001	CH22_FGENES.599_24	2.02	NCI-H69, PRSC_log, NCI-H345
	A1692643	Hs.172749		2.02	HT29, Caco2, MB-MDA-231
325396	MUJZUN	110,172170	CH.12 hs gij5866921	2.01	HT29, NCI-H520, NCI-H460
328770			CH.07_hs gj6017031	2.01	NCI-H23, NCI-H460, NCI-358
335585			CH22_FGENES.581_24	2.01	MB-MDA-453, DU145, MCF7
335634			CH22 FGENES.584_14	2.01	NCI-H23, NCI-H460, NCI-H69
338271			CH22 ENLAC005500.GENSCAN.287-1	2.01	MCF7, DU145, PC3
328607			CH.07_hs gij5868233	2.01	NCI-H460, NCI-H23, NCI-358
	Al147341	Hs.146734		2.01	NCI-H520, NCI-H23, NCI-358
334946	71111011	100110101	CH22 FGENES.465 13	2.01	CALU6, BT474, DU145
	R56360		EST duster (not in UniGene)	2.01	NCHH460, HT29, NCI-358
	Al193698	Hs.184776	ribosomal protein L23a	2.01	NCI-358, NCI-H520, NCI-H23
	AA344698			2.01	PC3, LnCap, MB-MDA-231
329221	74 20 7 1000		CH.X. Jrs gli5868727	2.01	NCI-H345, NCI-H69, NCI-358
	AA653589		EST singleton (not in UniGene) with exon	2.01	LnCap, EB, OVCA-R
328428	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		CH.07_hs gij5868417	2.01	NCI-H69, MB-MDA-453, BT474
	AA88866	Hs. 125919		2.01	NCI-H520, NCI-358, NCI-H23
	R00003	Hs.133171		2	OVCA-R, LriCap, PC3
	AA927002			2	NC1-H460, NC1-H23, NC1-358
	AA719179			2	NCI-H69, NCI-H23, PRSC_con
	AA541740		EST singleton (not in UniGene) with exon	2	NCI-H460, NCI-H520, MB-MDA-231
326194			CH.17_hs gl 5867213	2	HT29, NCI-358, BT474
JEG 10 1			—		

# Table 5: H chip – B survivor vs Met query – up in Mets

Pkey: Unique Eos probeset identifier number

ExAcon: Exemplar Accession number, Genhank accession number

Unigene Unigene Title: Unigene gene title

Pkey Ex.	Accn UniG_ID	Complete_Title	Ratio Met/B surv.
129093 AA2 124690 R05 115558 AA3 134261 AA2 104792 AA6	504343 Hs.18347 252710 Hs.10861 1818 Hs.17383 193806 Hs.1010 127678 Hs.8084 129288 Hs.29147		4.23 3.96 3.39 3.22

### Table 6: H chip – B survivor vs Met query – down in Mets

Pkey: Unique Eos probeset identifier number
ExAcen: Reemplar Accession number, Genhank accession number
UnigeneID: Unigene number
Unigene Title: Unigene gene title

Pkey	Ex Acon	UniG_ID	Complete_Title	Ratio Met/B surv.
101923	D00654 S75256 M87789 T67053	Hs.77443 Hs.140 Hs.181125	actin; gamma 2; smooth muscle; enterto HNL=neutrophil lipocalin [human, ovarian Immunoglobulin gamma 3 (Gm marker) Immunoglobulin lambda gene cluster	0.07 0.2 0.2 0.2

# Table 7: I chip – B survivor vs Met query – up in Mets

Pkey: Unique Eos probeset identifier number
ExAccu: Exemplar Accession number, Genhank accession number
UnigenelD: Unigene number
Unigene Title: Unigene gene title

Pkey	Ex_Acen	UniG_ID	Titte	Ratio Met/B surv
	T91443	Hs.193963	ESTs	19.65
321920	N63915			11.9
324302	AA543008	Hs.136806	ESTs; Wealthy similar to IIII ALU SUBFAMI	9.31
314522	Al732331		ESTs; Moderately similar to IIII ALU CLA	5.79
331433	H68097	Hs.161023		4.79
324643	Al436356		·	4.59
	AA416967		nuclear receptor co-repressor 2	4.58
	AA573072	He 1877/R	ESTs; Weakly similar to IIII ALU SUBFAMI	4.30
	AA078493	163.107740	EST cluster (not in UniGene)	
	AF086372			4.26
		11- 440400	EST cluster (not in UniGene)	3.89
	T10265		ESTs; Weakly similar to coded for by C.	3.81
	AA192455	Hs.188690		3.74
	AW362945			3.66
	H40988	Hs.131965	ESTs; Wealty similar to !!!! ALU SUBFAMI	3.51
337898			CH22_EM:AC005500.GENSCAN.56-5	3.21
319403	T98413		EST cluster (not in UniGene)	3.2
331469	N22273	Hs.39140	ESTs	3.15
331549	N56866	Hs.237507	EST	3.14
331644	T99544	Hs.173734	ESTs; Wealthy similar to III! ALU CLASS B	3.14
313220	AI971981	Hs.118241		3.04
				0.477

## Table 8: I chip - B survivor vs Met query - down in Mets

Pkey: Unique Eos probeset identifier number
ExAcen: Exemplar Accession number, Genbank accession number
UnigeneID: Unigene number
Unigene Title: Unigene gene title

Pkey	Ex_Accn	UniG_JD	Titte	Ratio Met/B surv
333658			CH22_FGENES.241_4	0.06
333657			CH22_FGENES.241_2	0.07
333654			CH22_FGENES.240_2	0.07
332859			CH22_FGENES.27_2	0.07
333656			CH22_FGENES.240_4	0.07
304480	AA430373		EST singleton (not in UniGene) with exon	0.08
333737			CH22_FGENES.261_1	0.09
308601	AI719930		EST singleton (not in UniGene) with excn	0.1
334030			CH22_FGENES.320_2	0.1
333637			CH22_FGENES.229_2	0.13
302347	AF039400	Hs.194659	chloride channel; calcium activated; fam	0.16
333653			CH22_FGENES.239_2	0.16
333635			CH22_FGENES.228_2	0.19
333647			CH22_FGENES.235_2	0.19
307588	Al285535		EST singleton (not in UniGene) with exon	0.2
337954			CH22_EM:AC005500.GENSCAN.98-3	0.2
333588			CH22_FGENES.206_2	0.21
320244	AA296922	Hs.129778		0.22
333642			CH22_FGENES.231_2	0.23
337951			CH22_EM:AC005500.GENSCAN,94-1	0.23
333730			CH22_FGENES.258_1	0.23
333646			CH22_FGENES.234_2	0.24

### Table 9: H chip – B survivor vs Met query – up in Mets

Pkey: Unique Eos probeset identifier number
ExAccr: Exemplar Accession number, Genhank accession number
UnigeneID: Unigene number
Unigene Title: Unigene gene tifle

Pkey	Ex Accn	UniGID	Complete_Title	Median Mets Al	vs Hedian B-Sur Al
100655	HG2841-H	T2970	Albumin, Alt. Splice 5	11.98	
124875	R70506	Hs.207693		9.21	
102193	U20758	Hs.313	secreted phosphoprotein 1 (osteopontin;	6.73	
	HG2841-HT	T2969	Albumin, Alt. Splice 3, Missplicing in Alloalbur		6.18
118828	N79496	Hs.50824	EST	5.93	
	AA873285			5.9	
	D14446	Hs.107	fibrinogen-like 1	5.17	
			EST; Highly similar to dJ1163J1.2.1 [H.s	5.11	
	T91518		ye20f05.s1 Stratagene lung (#937210) Hom	4.47	
	N68905		small inducible cytokine A5 (RANTES)	4.23	
	AA608657		ESTs: Moderately similar to IIII ALU SUB	4.21	
	AA379500	Hs.193155		4.14	
	R71234		yi54c08.s1 Soares placenta Nb2HP Homo sa		
	AA504343	Hs 183475	Homo septens clone 25061 mRNA sequence		
	T92950	100110	ye27c10.s1 Stratagene lung (#937210) Hom		
	N66845	He 165411	ESTs: Wealty similar to IIII ALU CLASS B	3.96	
	K00629		Human kpni repeat mma (cdna clone pcd-k	3.87	
			ESTs; Weakly similar to !!!! ALU SUBFAMI	3.85	
	C13961	Hs.210115		3.8	
	AA608588			3.76	
	AA984074			3.75	
	H09570		ESTs; Wealty similar to neuronal thread	3.67	
	R05818	Hs.173830		3.58	
	AA227678		Human DNA sequence from clone 465N24 on		3.57
	AA176225			3.52	3.31
	H27267		hydroxyacyi-Coenzyme A dehydrogenase/3-k		
	AA856990			3.42	-
	AA255991	Hs.175319		3.4	
	H39216		ESTs; Wealdy similar to ZNF91L [H.sapien	3.38	
	AA480909	113203310	aa28f10.s1 NCL_CGAP_GCB1 Homo sapiens		3.38
	AA424791	He 5734	KIAA0679 protein	3.38	3.00
	W67257		ESTs; Weakly similar to IIII ALU CLASS B	3.36	
			ESTs; Weakly similar to ubiquitous TPR m	3.3	
128710			cytochrome P450; subfamily IIIA (niphedi	3.27	
	AA598981			3.25	
			nuclear pore complex interacting protein	3.24	
124696			ESTs; Moderately similar to IIII ALU SUB	3.24	•
			EST; Weakly similar to IIII ALU SUBFAMIL.	3.21	
	M69197	Un 242270	haptoglobin-related protein	3.17	
	A1242720		ESTs; Weakly similar to alternatively so		
	AA235803		cathepsin D (lysosomal aspartyl protease	3.14	
				3.12	•
124055	R02443		ESTs; Moderately similar to IIII ALU SUB Homo sepiens clone 23605 mRNA sequence	3.08	
124896					
	AA610677	Hs.101594 Hs.168851		3.06	
116802		Hs.194026		3.04	
10002	1 111001	113, 134020	LUIS	3.01	

## Table 10: H chip - B survivor vs Met query - Down in Mets

Pkey: Unique Eos probeset identifier number

ExAcen: Exemplar Accession number, Genbank accession number

UnigenelD: Unigene number

Unigene Title: Unigene gene title

Pkey	Ex Acon	UniG_ID	Complete_Title	Ratio Met/B surv.
100116	D00654	Hs.77443	actin; gamma 2; smooth muscle; enteric	0.09
130064	T67053	Hs.181125	immunoglobulin lambda gene cluster	0.11
129982	M87789	Hs.140	immunoglobulin gamma 3 (Gm marker)	0.12
131219	C00476	Hs.24395	small inducible cytokine subfamily B (Cy	0.13
133806	M12759	Hs.76325	Human lg J chain gene	0.17
132982	L02326	Hs.198118	immunoglobulin tambda-like polypeptide 2	0.18
131713	X57809	Hs.181125	immunoglobulin lambda gene cluster	0.18
131791	S71043	Hs.32225	Immunoglobulin alpha 1	0.2
133725	V00563	Hs.179543	immunoglobulin mu	0.22
101923	S75256		HNL=neutrophil lipocalin (human, overian	0.23
101461	M22430	Hs.76422	phospholipase A2; group IIA (platelets;	0.24
103448	X99133	Hs.204238	lipocalin 2 (oncogene 24p3)	0.24

#### Table 11: H chip – Met vs Normal query – up in Mets

Pkey: Unique Eos probeset identifier number
ExAcca: Exemplar Accession number, Genbank accession number
Unigene Ditie: Unigene gene title

	Pkey	Ex Accn	UniG_ID	Complete_Title	Median Mets Al vs Median Normal Al
	100655	HG2841-H	T2970	Albumin, Alt. Splice 5	15.91
		U20758	Hs.313	secreted phosphoprotein 1 (osteopontin:	6.83
		R70506		ESTs; Weakly similar to [iii ALU SUBFAM]	
		HG2841-H	172969	Albumin, Alt. Splice 3, Missplicing in Alloalbu	
		F13673	Hs.99769	ESTs	5.11
		D14446	Hs.107	fibrinogen-like 1	5.05
		X70683	Hs.83484	SRY (sex determining region Y)-box 4	4.82
		AA491465		ESTs	4.78
				EST; Highly similar to dJ1163J1.2.1 [H.s	4.76
	115096	AA255991	Hs 175319	FSTe	4.67
		R56678		Human DNA sequence from clone 967N21 or	
		AA608657		ESTs; Moderately similar to III ALU SUB	4.61
		T91518		ye20f05.s1 Stratagene lung (#937210) Hom	4.59
		M77349	Hs.118787	transforming growth factor; beta-induced	4.58
		N79496	Hs.50824		4.56
		AA873285			4.45
		AA436560			4.09
		J05257	Hs.109	dipeptidase 1 (renai)	4.04
		AA379500			4.03
		R06273		ESTs; Moderately similar to IIII ALU SUB	4.01
		N66845		ESTs; Weakly similar to IIII ALU CLASS B	3.96
		AA024482		DKFZP434G032 protein	3.83
		AA088458			3.74
		N68905		small inducible cytokine A5 (RANTES)	3.7
		AA620390	Hs 247444		3.62
				ESTs; Moderately similar to IIII ALU SUB	3.61
	104105	AA422123	Hs.42457	ESTs	3.55
		D86974		KIAA0220 protein	3.54
		T51832		ESTs; Moderately similar to IIII ALU SUB	3.53
		AA084148	Hs.110659		3.52
		AA487595		aa95e2.s1 Stratagene fetal retina 93722	3.48
		X63629	Hs.2877	cadherin 3; P-cadherin (placental)	3.48
•	119404	T92950			3.47
1	123963	C13961	Hs.210115		3.47
1	116480	C14088		glyceraldehyde-3-phosphate dehydrogenase	
1	108836	AA132061	Hs.222727	ESTs; Wealty similar to ubiquitous TPR m	3.39
		AA303153	Hs.237994	EST; Weakly similar to III ALU SUBFAMIL	3.38
1	133770	M69197		haptoglobin-related protein	3.38
1	132358	X60486		H4 histone family, member G	3.37
1	27759	Al369384		arylsulfatase D	3.37
1	129095	L12350	Hs.108623	thrombospondin 2	3.37
1	28261	AI061213	Hs.13179	ESTs; Moderately similar to IIII ALU SUB	3.36
1	26908	AA169866		ESTs; Weakly similar to IIII ALU SUBFAMI	3.36
1	28954	N32118	Hs.209100	DKFZP434C171 protein	3.34
		R71234		yi54c08.s1 Soares placenta Nb2HP Homo sa	3.33
				KIAA0792 gene product	3.32
		AA984074			3.3
		AA856990	Hs.125058	ESTs	3.25
1	24620	N74051	Hs.194092	ESTs; Weakly similar to IIII ALLU SUBFAMI	3.24
	35427			AFFX control: human allu repeats	3.23
		H99653	Hs.138618		3.22
		W67257			3.2
		R02401	Hs.221078		3.2
			Hs.23348	S-phase kinase-associated protein 2 (p45	3.17
		T99544	Hs.173734		3.16
		AA480909		aa28f10.s1 NCL_CGAP_GCB1 Homo sapiens	cD 3.15
		Z70759			3.13
		A1242720		ESTs; Wealdy similar to alternatively sp	3.12
		R05818	Hs.173830		3.1
		F02778	Hs.173887	KIAA0876 protein	3.07
					3.07
		AA284139			3.06
			Hs.240443	ESTs; Wealthy similar to HNK-1 sufforms	3.06
		H27267	Hs.75860	hydroxyacyl-Coenzyme A dehydrogenase/3-k	3.05
				•	

129906	H39216	Hs.239970	ESTs; Wealty similar to ZNF91L [H.sapien	3.04
123422	AA598484	Hs.238476	EST	3.03
103059	X57351	Hs.174195	Interferon induced transmembrane protein	3.02
124253	H69742	Hs.102201	ESTs	3.02
123523	AA608588	Hs.193634	ESTs	3.02
132669	AA188378	Hs.54602	ESTs; Wealdy similar to 60S RIBOSOMAL PI	R3.02
123196	AA489250	Hs.59403	serine palmitoytransferase; subunit II	3.01
122948	AA477483		zu44h2.s1 Soares ovary turnor NbHOT Home	3.01
119053	R11501		yf28f1.s1 Soares fetal liver spleen 1NFL	3.01
125953	H40829		yo05d11.r1 Soares adult brain N2b5HB55Y	3
119155	R61715	Hs.138237	ESTs	3

<u>-</u>-

#### Table 12: H chip – Met vs Normal query – down in Mets

Pkry: Unique Eos probeset identifier number

ExAcen: Exemplar Accession number, Genbank accession number

Unigene III Unigene number

Unigene Title: Unigene gene title

	•		•	
Pkey	Ex Aces	UniG_ID	Complete_Title	Median Mets Al vs Median Normal Al
103466	Y00339	Hs.155097	carbonic anhydrase II	0.01
104258	AF007216	Hs.5462	solute carrier family 4; sodium bicarbon	0.02
	AA156064		ESTs	0.04
101046	K01160		Accession not listed in Genbank	0.04
	H57056	Hs.204831		0.05
101346	L76465	Hs.77348	hydroxyprostaglandin dehydrogenase 15-(N	0.05
123137	AA487468		ESTs; Wealty similar to secreted cement	0.05
	X73501	Hs.84905	H. Sapiens mRNA for cytokeratin 20	0.05
118823	N79237		ESTs; Wealty similar to long chain fatty	0.06
102095	U11313	Hs.75760		0.06
111855	R37362	Hs.21351	ESTs	0.06
129105	AA224351	Hs.108681	ESTs	0.07
	U19495	Hs.237358	stromal cell-derived factor 1	0.07
	W15263	Hs.5422	ESTs	0.07
	H25836	Hs.83429	turnor necrosis factor (ligand) superfami	0.07
	D00654	Hs.77443	actin; gamma 2; smooth muscle; enteric	0.07
104636	AA004415	Hs.106106	ESTS	0.07
10/032	AA599472	Hs.247309	succinate-CoA ligase; GDP-forming; beta	0.08
			Homo saplens mRNA; cDNA DKFZp564B076	
	AA487557			0.08
130016	AAU55811		transmembrane glycoprotein	0.08
	T90037	Hs.16686		0.08
	U67319		caspase 7; apoptosis-related cysteine pr	0.09
	H93575		Homo sapiens mRNA; cDNA DKFZp564J142	
	AA298786 L10955			0.09
	L11708		carbonic anhydrase IV	0.09
	AA195718		hydroxysteroid (17-beta) dehydrogenase 2	0.09
	U14528	Hs.29981		0.09 0.1
	N73702	Hs.238927		Q1
	D11925		KIAA0929 protein Msx2 interacting nuclea	0.1
	M12759	Hs.76325	Human Ig J chain gene	0.1
	U60115		Homo sapiens skeletal muscle LIM-protein	0.1
		Hs.44343		0.11
131328	V01512	Hs.25647	v-fos FBJ murine osteosarcoma viral onco	0.11
106569	AA455983	Hs.117816		0.11
103542	Z11793	Hs.3314	selenoprotein P; plasma; 1	0.11
	C02386	Hs.107139		Q.11 ·
120914	AA377254	Hs.97107	EST	0.11
	J04093	Hs.2056		0.11
	N30796			0.12
	M97496	Hs.778		0.12
132617	AA171913	Hs.5338	carbonic anhydrase XII	0.12 .
				0.12
133435		Hs.7365		0.13
132836				0.13
	AA628600			0.13
	AA001049 AA235404		Homo sapiens mRNA; cDNA DKFZp586G012	3 (f 0.13 .
	W32094	Hs.55501	Homo saplens clone 25186 mRNA sequence ESTs	
	AA421139			0.14
	AA461303			0.14 0.14
	AA151676			0.14 0.14
103211				0.14
131219		Hs.24395		0.15
	AA621399			0.15
130219				0.15
	W68388	Hs.21288		0.15
	M32886	Hs.117816		Q.15
109502	AA233837	Hs.44755		0.15
107222	D51235	Hs.82689		0.15
	AA454930	Hs.9691		0.15

	R66534	Hs.28403	ESTs .	0.15	
	R70914	Hs.8997	heat shock 70kD protein 1	0.15	
	AA490262				
	AA256323			0.16	
			differentially expressed in hematopoleti	0.16	
	M22430	Hs.76422		0.16	
	D20458	Hs.229071		0.16	
133889	AA099391		myosin; light polypeptide kinase	0.16	
103653	Z70295	Hs.32966		0.16	
101070	L02785	Hs.1650	down-regulated in adenoma	0.17	
131501	AA121127	Hs.181307	H3 histone; family 3A	0.17	
133515	X98311	Hs.74466	carcinoembryonic antigen-related cell ad	0.17	
108604	AA099820	Hs.49696	ESTs	0.17	
132982	L02326	Hs.198118	immunoglobulin lambda-like polypeptide 2	0.17	
131676	C20785	Hs.30514	ESTs	0.17	
	AA250745			0.17	
	M82962		meprin A; alpha (PABA peptide hydrotase)	0.18	
	X17059		N-acetyltransferase 1 (arylamine N-acety	0.18	
	D62965	Hs.31297		0.18	
	HG3521-HT		Ras-Related Protein Rap1b	0.18	
	F13665	Hs.65641	ESTS	0.18	
129200	X68277 U37518		dual specificity phosphatase 1	0.18 0.18	
	AA055768	Hs.83429		0.18	
	AA621223			0.19	
	AA422086			0.19	
	AA405715		hypothetical protein	0.19	
	W42789	Hs.31446	ESTS	0.19	
	AA256268			0.19	
	T57112		yc20g11.s1 Stratagene lung (#937210) Hom		
	D84239	Hs.111732	IgG Fc binding protein	0.19	
	X86693	Hs.75445		0.2	
126180	R18070	Hs.3712	ubiquinol-cytochrome c reductase; Rieske	0.2	
100687	HG3115-HT	3291	Golf-Mbp (Gb:L18862)	0.2	
130064	T67053	Hs.181125	immunoglobulin lambda gene cluster	0.2	
	M12963	Hs.73843	alcohol dehydrogenase 1 (class I); alpha	0.2	
	1.20826	Hs.430	plastin 1 (I isoform)	0.2	
105646	AA282147	Hs.5888	ESTS	0.2	
105646 132883	AA282147 AAD47151	Hs.5888 Hs.5897	ESTs Homo saplens mRNA; cDNA DKFZp586P162	0.2 2 (f	0.21
105646 132883 132618	AA282147 AA047151 AA253330	Hs.5888 Hs.5897 Hs.5344	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma	0.2 2 (f 0.21	0.21
105646 132883 132618 108931	AA282147 AA047151 AA253330 AA147186	Hs.5888 Hs.5897 Hs.5344 Hs.250746	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs	0.2 2 (f 0.21 0.22	0.21
105646 132883 132618 108931 131421	AA282147 AA047151 AA253330 AA147186 X64177	Hs.5888 Hs.5897 Hs.5344 Hs.250746 Hs.2667	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H	0.2 2 (f 0.21 0.22 0.22	0.21
105646 132883 132618 108931 131421 107295	AA282147 AA047151 AA253330 AA147186 X64177 T34527	Hs.5888 Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:potyp	0.2 2 (f 0.21 0.22 0.22 0.22	0.21
105646 132883 132618 108931 131421 107295 103576	AA282147 AA047151 AA253330 AA147186 X64177 T34527 Z26317	Hs.5888 Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallicithionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2	0.2 2 (f 0.21 0.22 0.22 0.22 0.22 0.22	0.21
105646 132883 132618 108931 131421 107295 103576 105173	AA282147 AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030	Hs.5888 Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metalliothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs	0.2 2 (f 0.21 0.22 0.22 0.22 0.22 0.22	0.21
105646 132883 132618 108931 131421 107295 103576 105173 134843	AA282147 AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595	Hs.5888 Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metalliothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein	0.2 2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.22	0.21
105646 132883 132618 108931 131421 107295 103576 105173 134843 102009	AA282147 AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030	Hs.5888 Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallicthionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9	0.2 2 (f 0.21 0.22 0.22 0.22 0.22 0.22	0.21
105646 132883 132618 108931 131421 107295 103576 105173 134843 102009 123997	AA282147 AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680	Hs.5888 Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metalliothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein	0.2 2(f 0.21 0.22 0.22 0.22 0.22 0.22 0.22 0.23	0.21
105646 132883 132618 108931 131421 107295 103576 105173 134843 102009 123997	AA282147 AAD47151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652	Hs.5888 Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 woltage-dependent anion channel 2 ESTs	0.2 2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.22 0.23 0.23	0.21
105646 132883 132618 108931 131421 107295 103576 105173 13483 102009 123997 106609 101300 129717	AA282147 AA047151 AA253330 AA147186 X64177 T345227 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670	Hs.5888 Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 woltage-dependent anion channel 2 ESTs	0.2 2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.22 0.23 0.23	0.21
105646 132883 132618 108931 131421 107295 103576 105173 134843 102009 123997 106300 101300 129717 108565	AA282147 AA047151 AA253330 AA147185 X64177 T345227 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342	Hs.5888 Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo saplens (clone s153) mRNA fragment ESTs; Wealdy similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl	0.2 2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23	0.21
105646 132883 132618 108931 131421 107295 103576 105173 134843 102009 123997 106609 101300 129717 108565 121314	AA282147 AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA402799	Hs.5888 Hs.5997 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.2643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.182538	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Wealdy similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs	0.2 2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23	0.21
105646 132883 132618 108931 131421 107295 103576 105173 134843 102009 101300 129717 108565 101364 124803	AA282147 AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA402799 R45480	Hs.5888 Hs.5997 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.182538 Hs.164866	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 woltage-dependent anion channel 2 ESTs Homo saplens (clone s153) mRNA fragment ESTs; Wealdy similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K	0.2 2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23	0.21
105646 132883 132618 108931 131421 107295 103576 105173 134843 102009 123997 106609 101300 129717 108565 121314 124803 130208	AA282147 AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA40279 R45480 AA620556	Hs.5888 Hs.5897 Hs.5344 Hs.250746 Hs.2607 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.1526 Hs.164866 Hs.15250	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metalliothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 woltage-dependent anion channel 2 ESTs Homo saplens (clone s153) mRNA fragment ESTs; Wealdy similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-encyl-CoA isomerase	0.2 2 (f 0.21 0.22 0.22 0.22 0.22 0.23 0.23 0.23 0.23	0.21
105646 132883 132618 108331 131421 107295 103576 105173 134843 102009 123997 106509 101300 129717 108565 121314 124803 1320208 132888	AA282147 AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA40275 AA620556 AA490775	Hs.5888 Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.1526 Hs.1526 Hs.16486 Hs.15250 Hs.5520 Hs.5520	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallicithionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 woltage-dependent anion channel 2 ESTs Homo saplens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-enoyl-CoA isomerase UDP-N-acetylglucosamine-2-epimerase/N-ac	0.2 2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23	0.21
105646 132883 132683 131421 107295 103576 105173 134843 102009 123997 108609 101300 129717 108565 121314 124803 132888 132720	AA282147 AA047151 AA253330 AA147186 XG4177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA488652 L40391 AA481670 AA085342 AA402799 R45480 AA620556 AA690775 Z69881	Hs.5888 Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.82641 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.16250 Hs.16258 Hs.164866 Hs.15250 Hs.5250 Hs.5541	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo saplens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K perudsomal D3;D2-enoyl-CoA isomerase UDP-N-acetylglucosamine-2-ephnerase/N-ac ATPase; Ca++ transporting; ublquitous	0.2 2 (f 0.21 0.22 0.22 0.22 0.22 0.23 0.23 0.23 0.23	0.21
105646 132883 132618 108931 107295 103576 105173 134843 102009 123997 108608 101300 129717 108565 121314 124803 13208 13288 132720 102239	AA282147 AA047151 AA253330 AA147186 XG4177 T34527 Z26317 AA182030 H002680 D51171 AA458652 L40391 AA481670 AA085342 AA402799 R45480 AA620556 AA490775 Z69881 L26726	Hs.5888 Hs.5997 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.890061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.15256 Hs.164866 Hs.15250 Hs.5520 Hs.5520 Hs.5521 Hs.1376	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo saplens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-enoyl-CoA isomerase UDP-N-acetylglucosamine-2-epimerase/N-ac ATPase; Ca++ transporting; ublquitous hydroxysteroid (11-beta) dehydrogenase 2	0.2 2 (f 0.21 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23	0.21
105646 132883 132618 108931 131421 107295 103576 105173 134843 102009 123997 108609 101300 129717 108565 121314 124803 130208 132888 1327239 115764	AA282147 AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA082356 AA402799 R45480 AA620556 AA490775 Z69881 U28726 AA421562	Hs.5888 Hs.5997 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.1526 Hs.1526 Hs.15250 Hs.5520 Hs.5520 Hs.5520 Hs.5520 Hs.5520 Hs.5521 Hs.1376 Hs.91011	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Wealdy similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-enoyl-CoA isomerase UDP-N-acetylgbucosamine-2-epimerase/N-ac ATPase; Ca++ transporting; ubiquitous hydroxysteroid (11-beta) dehydrogenase 2 anterior gradient 2 (Xenepus laevis) hom	0.2 2 (f 0.21 0.22 0.22 0.22 0.22 0.23 0.23 0.23 0.23	0.21
105646 132883 132618 108931 131421 107295 103576 105173 134843 102009 101300 129717 108509 101300 129717 108508 121314 124803 130208 132888 132720 10258 132658	AA282147 AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA620556 AA490775 Z69881 U28726 AA421562 H96654	Hs.5888 Hs.5997 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.1526 Hs.1526 Hs.15250 Hs.5538 Hs.164866 Hs.15250 Hs.5541 Hs.1376 Hs.91011 Hs.15984	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo saplens (clone s153) mRNA fragment ESTs; Wealdy similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-encyl-CoA isomerase UDP-N-acetylglucosamine-2-ephnerase/N-ac ATPase; Ca++ transporting; ublquifous ATPase; Ca++ transporting; ublquifous ATPase; Ca++ transporting; blquifous ESTs; Wealdy similar to gene pp21 protei	0.2 2 (f 0.21 0.22 0.22 0.22 0.22 0.23 0.23 0.23 0.23	0.21
105646 132883 132618 108931 131421 107295 103576 105173 134843 102009 123997 106609 101300 129717 108565 121314 130208 132888 132720 102239 115764 130558 .122666	AA282147 AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA402799 R45480 AA620556 AA490775 Z69881 LU28726 AA421562 H96654 AA455052	Hs.5888 Hs.5997 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.1526 Hs.1526 Hs.15250 Hs.5538 Hs.15250 Hs.5531 Hs.1526 Hs.15250 Hs.55341 Hs.1538 Hs.15250 Hs.5541 Hs.15384 Hs.99387	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metalliothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 woltage-dependent anion channel 2 ESTs Homo saplens (clone s153) mRNA fragment ESTs; Wealdy similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-encyl-CoA isomerase UDP-N-acetylglucosamine-2-epimerase/N-ac ATPase; Ca++ transporting; ublquitous hydroxysteroid (11-beta) dehydrogenase 2 anterior gradient 2 (Xenepus laevis) hom ESTs; Wealdy similar to gene pp21 protei ESTs	0.2 2 (f 0.21 0.22 0.22 0.22 0.22 0.23 0.23 0.23 0.23	0.21
105646 132883 132683 132683 131424 107295 103576 105173 134843 102009 123997 108609 101300 129717 108565 121314 124803 132088 132288 132720 102239 115764 130566 132666 132666	AA282147 AA047151 AA253330 AA147186 XG4177 T34527 Z26317 AA182030 D51171 AA458652 L40391 AA481670 AA085342 AA402799 R45480 AA620556 AA620556 AA490775 Z69881 L28726 AA421562 H96654 AA435052 D63477	Hs.5888 Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.1526 Hs.162538 Hs.164866 Hs.15250 Hs.5250 Hs.5541 Hs.91011 Hs.15984 Hs.99387 Hs.84087	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo saplens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K perudsomal D3;D2-enoyl-CoA isomerase UDP-N-acetylglucosamine-2-ephnerase/N-ac ATPase; Ca++ transporting; ublquitous hydroxysteroid (11-beta) dehydrogenase 2 anterior gradient 2 (Xenepus laevis) hom ESTs; Weakly similar to gene pp21 protei ESTs KIAA0143 protein	0.2 2 (f 0.21 0.22 0.22 0.22 0.22 0.23 0.23 0.23 0.23	0.21
105646 132883 132618 108931 107295 103576 105173 134843 102009 123997 108608 101300 129717 108565 121314 124803 13208 13288 132720 102239 115764 130558 12266 134495	AA282147 AA047151 AA253330 AA147186 XGA177 T34527 Z26317 AA182030 H005680 D51171 AA458652 L40391 AA481670 AA085342 AA402799 R45480 AA620556 AA490775 Z69881 L26726 AA421562 H96654 AA455052 D63477 F02202	Hs.5888 Hs.5897 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.1526 Hs.162538 Hs.164866 Hs.15250 Hs.5520 Hs.5541 Hs.1376 Hs.91011 Hs.15984 Hs.9387 Hs.9067 Hs.100960	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo saplens (clone s153) mRNA fragment ESTs; Wealdy similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-enoyl-CoA isomerase UDP-N-acetylglucosamine-2-epimerase/N-ac ATPase; Ca++ transporting; ublquitous hydroxysteroid (11-beta) dehydrogenase 2 anterior gradient 2 (Xenepus laevis) hom ESTs; Wealdy similar to gene pp21 protei ESTs KIAAO143 protein	0.2 2 (f 0.21 0.22 0.22 0.22 0.22 0.23 0.23 0.23 0.23	0.21
105646 132883 132618 108931 131421 107295 103576 105173 134843 102009 101300 129717 108565 121314 124803 130208 132208 132208 132208 132266 132666 134495 106925	AA282147 AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA620556 AA402799 R45480 AA620556 AA490775 Z69881 U26726 AA421562 H96654 AA455052 D63477 F02202 AA491261	Hs.5888 Hs.5997 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.2643 Hs.78902 Hs.32181 Hs.6445 Hs.1526 Hs.1526 Hs.15250 Hs.5520	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Wealdy similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-enoyl-CoA isomerase UDP-N-acetylglucosamine-2-ephmerase/N-ac ATPase; Ca++ transporting; ublquitous hydroxysteroid (11-beta) dehydrogenase 2 anterior gradient 2 (Xenepus laevis) hom ESTs; Wealdy similar to gene pp21 protei ESTs KJAAO143 protein ESTs Homo saptens clone 23923 mRNA sequence	0.2 2 (f 0.21 0.22 0.22 0.22 0.22 0.23 0.23 0.23 0.23	0.21
105646 132883 132618 108931 131421 107295 103576 105173 134843 102009 101300 129717 108565 121314 124803 130208 132288 132720 102239 115764 130558 122666 134495 124017 106925 115187	AA282147 AA047151 AA253330 AA147186 X64177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA402799 R45480 AA620556 AA490775 Z68654 AA452055 AA421562 H98654 AA455052 D63477 F02202 AA491261 AA261805	Hs.5888 Hs.5997 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.1526 Hs.1526 Hs.15250 Hs.55541 Hs.1576 Hs.93387 Hs.84087 Hs.99387 Hs.10960 Hs.37558 Hs.44021	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Wealdy similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-enoyl-CoA isomerase UDP-N-acetylglucosamine-2-ephmerase/N-ac ATPase; Ca++ transporting; ubiquifous hydroxystaroid (11-beta) dehydrogenase 2 anterior gradient 2 (Xenepus laevis) hom ESTs; Wealdy similar to gene pp21 protei ESTs KIAA0143 protein ESTs Homo sapiens clone 23923 mRNA sequence ESTs	0.2 2 (f 0.21 0.22 0.22 0.22 0.22 0.23 0.23 0.23 0.23	0.21
105646 132883 132618 108931 107295 103576 105173 134843 102009 123997 108509 101300 129717 108565 121314 124803 132288 132720 102239 115764 130558 122666 134495 122666 134495 12267 105309	AA282147 AA047151 AA253330 AA147186 XG4177 T34527 Z26317 AA182030 H60595 U02680 D51171 AA488652 L40391 AA481670 AA085342 AA402799 R45480 AA620556 AA490775 Z69881 U26726 AA441562 D53477 F02202 AA491261 AA261805 AA233790	Hs.5888 Hs.5997 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.12150 Hs.1526 Hs.1526 Hs.1526 Hs.15250 Hs.55541 Hs.1576 Hs.93387 Hs.84087 Hs.99387 Hs.10960 Hs.37558 Hs.44021	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metalliothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo saplens (clone s153) mRNA fragment ESTs; Wealdy similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K perodsomal D3;D2-encyl-CoA isomerase UDP-N-acetylglucosamine-2-epimerase/N-ac ATPase; Ca++ transporting; ublquitous hydroxysteroid (11-beta) dehydrogenase 2 anterior gradient 2 (Xenepus laevis) hom ESTs; Wealdy similar to gene pp21 protei ESTs KIAAO143 protein ESTs Homo saptens clone 23923 mRNA sequence ESTs ESTs; Wealdy similar to cDNA EST yk386g7	0.2 2 (f 0.21 0.22 0.22 0.22 0.22 0.23 0.23 0.23 0.23	0.21
105646 132883 132618 108931 107295 103576 105173 134803 102009 123997 108608 101300 129717 108565 121314 124803 132208 132720 102239 115764 130558 132720 115764 13495 13495 124017 106925 115187 105309 124457 130616	AA282147 AA047151 AA253330 AA147186 XGA177 T34527 Z26317 AA182030 H00595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA402799 R45480 AA620556 AA490775 Z69881 U26726 AA421562 H96654 AA455055 D53477 F02202 AA491261 AA261805 AA261805 AA233790 N50114 AA233763	Hs.5888 Hs.5997 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.1526 Hs.1526 Hs.15250 Hs.5520 Hs.5520 Hs.5520 Hs.55920 Hs.55920 Hs.559387 Hs.100960 Hs.37558 Hs.44021 Hs.4404 Hs.122704 Hs.16726	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metalliothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo saplens (clone s153) mRNA fragment ESTs; Wealdy similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K perodsomal D3;D2-encyl-CoA isomerase UDP-N-acetylglucosamine-2-epimerase/N-ac ATPase; Ca++ transporting; ublquitous hydroxysteroid (11-beta) dehydrogenase 2 anterior gradient 2 (Xenepus laevis) hom ESTs; Wealdy similar to gene pp21 protei ESTs KIAAO143 protein ESTs Homo saptens clone 23923 mRNA sequence ESTs ESTs; Wealdy similar to cDNA EST yk386g7	0.2 2 (f 0.21 0.22 0.22 0.22 0.22 0.23 0.23 0.23 0.23	0.21
105646 132883 132618 108931 107295 103576 105173 134803 102009 123997 108608 101300 129717 108565 121314 124803 132208 132720 102239 115764 130558 132720 115764 13495 13495 124017 106925 115187 105309 124457 130616	AA282147 AA047151 AA253330 AA147186 XGA177 T34527 Z26317 AA182030 H00595 U02680 D51171 AA458652 L40391 AA481670 AA085342 AA402799 R45480 AA620556 AA490775 Z69881 U26726 AA421562 H96654 AA455055 D53477 F02202 AA491261 AA261805 AA261805 AA233790 N50114 AA233763	Hs.5888 Hs.5997 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.1526 Hs.1526 Hs.15250 Hs.5520 Hs.5520 Hs.5520 Hs.55920 Hs.55920 Hs.559387 Hs.100960 Hs.37558 Hs.44021 Hs.4404 Hs.122704 Hs.16726	ESTs Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs progesterone binding protein protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo saplens (clone s153) mRNA fragment ESTs; Weakly similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K perudsomal D3;D2-enoyl-CoA isomerase UDP-N-acetylgucosamine-2-ephnerase/N-ac ATPase; Ca++ transporting; ublquitous hydroxysteroid (11-beta) dehydrogenase 2 anterior gradient 2 (Xenepus laevis) hom ESTs; Weakly similar to gene pp21 protei ESTs KIAA0143 protein ESTs Homo saptens clone 23923 mRNA sequence ESTs ESTs; Weakly similar to cDNA EST yk386g7 ESTs	0.2 2 (f 0.21 0.22 0.22 0.22 0.22 0.23 0.23 0.23 0.23	
105646 132883 132618 108931 131421 107295 103576 105173 134803 123997 106608 101300 129717 108565 121314 124803 132780 102239 115764 130558 132780 115764 13495 13	AA282147 AA047151 AA253330 AA147186 XG4177 T34527 Z26317 AA182030 D51171 AA458652 L40391 AA481670 AA085342 AA402799 R45480 AA520556 AA490775 Z69881 L28726 AA421562 L98654 AA455052 D63477 F02202 AA491261 AA261805 AA231790 N50114	Hs.5888 Hs.5997 Hs.5344 Hs.250746 Hs.2667 Hs.80120 Hs.2631 Hs.8364 Hs.90061 Hs.82643 Hs.78902 Hs.32181 Hs.6445 Hs.1526 Hs.1526 Hs.15250 Hs.5520 Hs.5520 Hs.5520 Hs.55920 Hs.55920 Hs.559387 Hs.100960 Hs.37558 Hs.44021 Hs.4404 Hs.122704 Hs.16726	ESTS Homo saplens mRNA; cDNA DKFZp586P162 adaptor-related protein complex 1; gamma ESTs metallothionein 1H UDP-N-acetyl-alpha-D-galactosamine:polyp desmoglein 2 ESTs protein tyrosine kinase 9 voltage-dependent anion channel 2 ESTs Homo sapiens (clone s153) mRNA fragment ESTs; Wealdy similar to retinal short-ch ATPase; Ca++ transporting; cardiac muscl ESTs cyclin K peroxisomal D3;D2-enoyl-CoA isomerase UDP-N-acetylglucosamine-2-epimerase/N-ac ATPase; Ca++ transporting; ublquifous hydroxysteroid (11-beta) dehydrogenase 2 anterior gradient 2 (Xenepus laevis) hom ESTs; Wealdy similar to gene pp21 protei ESTs KJAA0143 protein ESTs Homo saptens clone 23923 mRNA sequence ESTs ESTs; Wealdy similar to cDNA EST yk386g7 ESTs Homo saptens mRNA; cDNA DKFZp564A132	0.2 2 (f 0.21 0.22 0.22 0.22 0.22 0.23 0.23 0.23 0.23	

### Table 13: H chip – Met vs Normal query – up in Mets

Pkey: Unique Eos probeset identifier number
ExAcon: Exemplar Accession number, Genbank accession number
UnigeneID: Unigene mumber
Unigene Title: Unigene gene title

Pkey	Ex Accn	UniG_JD	Complete_Title	Ratio Met/Norma	ıi
	U20758	Hs.313	secreted phosphoprotein 1 (osteopontin;	8.457	
111307	N73988	Hs.37477	ESTs; Wealdy similar to CGI-141 protein	6.05	
103119	X63629	Hs.2877	cadherin 3; P-cadherin (placental)	5.207	
131564	AA491465	Hs.28792	ESTs	5.136	
119729	W69747	Hs.94806	KIAA1062 protein	4.667	
124059	F13673	Hs.99769	ESTs	4.398	
123987	C21171	Hs.95497	ESTs; Wealty similar to GLUCOSE TRANSP	OR	4.292
128817	N47524	Hs.28491	spermidine/spermine N1-acetyltransferase	3.964	
133770	M69197	Hs.242279	haptoglobin-related protein	3.823	
130412	AA406554	Hs.241572	golgl autoantigen; golgin subfamily a; 5	3.719	
104755	AA024482	Hs.9029	DKFZP434G032 protein	3.702	
	AA283035	Hs.54813	ESTs	3.645	
134453	X70683	Hs.83484	SRY (sex determining region Y)-box 4	3.581	
	R05818	Hs.173830		3.446	
106949	AA496805	Hs.177425	KIAA0964 protein	3.42	
130724	AA370091	Hs.179680	ESTS	3.402	
128992	R49693	Hs.107708	ESTs	3.32	
133421	AA436560	Hs.7327	claudin 1	3.255	
103047	X55990	Hs.73839	ribonuclease; RNase A family; 3 (eosinop	3.229	
102990	X51441	Hs.181062	serum amyloid A1	3.149	
115429	AA284139	Hs.89295	EST	3.114	
129158	J05257	Hs.109	dipeptidase 1 (renal)	3.019	
123533	AA608751	Hs.244904	ESTs; Wealdy similar to IIII ALU SUBFAMI	3.011	

## Table 14: H chip – Met vs Normal query – down in Mets

Pkey: Unique Eos probeset identifier number
Ex-Acca: Exemplar Accession number, Genbank accession number
UnigeneID: Unigene number
Unigene Title: Unigene gene title

PkeyY	Ex Accn	Uni <b>G</b> _JD	Complete_Title	Ratio Met/Norma	al
103466	Y00339	Hs.155097	carbonic anhydrase II	0.012	
	AF007216		solute carrier family 4; sodium bicarbon	0.025	
108999	AA156064	Hs.72115	ESTs	0.034	
	K01160		Accession not listed in Genbank	0.041	
	H57056	Hs.204831	F117	0.042	
	L76465 U11313	Hs.77348 Hs.75760		0.043 0.054	
	R37362	Hs.21351		0.055	
	U19495		stromal cell-derived factor 1	0.058	
		Hs.100686	ESTs; Wealty similar to secreted cement	0.06	
	D51235		tumor rejection antigen (gp96) 1	0.06	
	U67319	Hs.9216	caspase 7; apoptosis-related cysteine pr	0.063	
	AA487557			0.065	
	AA224351 N30796		ESTs; Weakly similar to semaphorin F [H.	0.069 0.069	
	D00654		actin; gamma 2; smooth muscle; enteric	0.071	
	H25836		tumor necrosis factor (ligand) superfami	0.074	
130867	J04093	Hs.2056	UDP glycosyltransferase 1	0.075	
	F09557	Hs.57929		0.076	
	D11925		KIAA0929 protein Msx2 interacting nuclea	0.081	
	AA461303 AA195718		DKFZP586D1519 protein	0.084 0.088	
	N73702	Hs.238927		0.091	
	AA455983			0.092	
104636	AA004415	Hs.106106	ESTs	0.093	
	N79237		ESTs; Weakly similar to long chain fatty	0.094	
	X73501		H. Saplens mRNA for cytokeratin 20	0.095	
	W32094	Hs.55501	ESTs ESTs	0.096 0.098	
	W15263 U83908	Hs.5422	programmed cell death 4	0.102	
	N92884	Hs.109641		0.106	
	AA093348		secreted frizzled-related protein 1	0.108	
135237	AA454930	Hs.9691	ESTs	0.109	
	AA480975			0.111	
	AA171913		carbonic anhydrase XII	0.112	
	AA421139 F10577	Hs.70312		0.113 0.114	
	S71043		immunoglobulin alpha 1	0.114	
	R66534	Hs.28403		0.115	
	W67251	Hs.37331			
	H93575		Homo sapiens mRNA; cDNA DKFZp564J142		0.117
	AA234929			0.119	
	D20458 AA233511	Hs.229071	ATP-binding cassette; sub-family G (WHIT	0.12 0.122	
	L11708		hydroxysteroid (17-beta) dehydrogenase 2	0.122	
	M12759		Human Ig J chain gene	0.122	
	AA026349	Hs.31412	ESTs	0.125	
	XTTTT		vasoactive intestinal peptide receptor 1	0.125	
			paternally expressed gene 3	0.127	
	AA348014	Hs.23412 Hs.865		0.128	
	M22995 X04011	Hs.88974	RAP1A; member of RAS oncogene family cytochrome b-245; beta polypepilde (chro	0.128 0.128	
			DKFZP586A0522 protein	0.133	'
	D51119		tetraspan 3	0.133	
129168	T90621		chromosome 14 open reading frame 2	0.133	
	AA621103			0.135	
	M60830	Hs.5509	ecotropic viral integration site 28	0.135	
135342	W60097	Hs.99120	DEADIH (Asp-Giu-Ala-Asp/His) box polypep ESTs; Weakly similar to similar to 1-acy	0.135	
	AA207114 AA287383		ESTS Weardy Similar to Similar to 1-acy	0.137 0.137	
	L10955	Hs.89485	carbonic anhydrase IV	0.139	
106586	AA456598	Hs.256269		0.139	
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400000	A A 4 DOCCO	LL OCOCO	EXT.		
	L02785	Hs.25253 Hs.1650	ESTS	0.139	
114293	Z40718	Hs.20196	down-regulated in adenoma adenylate cyclase 9	0.14 0.14	
	W86600	Hs.9842	ESTs	0.141	
	L19872		aryl hydrocarbon receptor	0.145	
131492	AA393876	Hs.1255	nuclear receptor subfamily 2: group F: m	0.145	
133889	AA099391	Hs.211582	myosin; light polypepiide kinase	0.145	
		Hs.97107		0.147	
	N74690			0.149	
	R41771	Hs.25264 Hs.22146		0.151	
		Hs.10338		0.153 0.154	
	Z38161		plasma glutamate carboxypeplidase	0.154	
		Hs.171921	sema domain; immunoglobulin domain (ig);	0.154	
115967	AA446887	Hs.42911	ESTs	0.154	
	U60115		Homo sapiens skeletal muscle LIM-protein	0.155	
	HG3115-H		Golff-Mbp (Gbd.18862)	0.155	
	AA235404	Hs.5985 Hs.117587	Homo saplens done 25186 mRNA sequence		
	T67053		immunoglobulin lambda gene cluster	0.155	
		Hs 99824	BCE-1 protein	0.157 0.159	
		Hs.21276		0.159	
103542	Z11793	Hs.3314	selenoprotein P; plasma; 1	0.161	
	M23379	Hs.758	RAS p21 protein activator (GTPase activa	0.162	
	AA142913		ESTs	0.164	
	HG2743-H		Caldesmon 1, Alt. Splice 6, Non-Muscle	0.167	
	AA599801	Hs.59622	ESTS	0.167	
	C02386		<del>-</del>	0.169 0.171	
117634	N36424	He 107854	ESTs; Wealty similar to SODIUM- AND CHLO		0.172
129462	D84239	Hs.111732	IgG Fc binding protein	0.174	
131328	V01512	Hs.25647	v-fos FBJ murine osteosarcoma viral onco	0.176	
130343	AA490262	Hs.15485	ESTs; Wealthy similar to APICAL-LIKE PROT		
		Hs.91011	Branning ( random moth) inch	0.177	
		Hs.98902 Hs.21103	ESTS Home contract mPNA: cDNA DVEZ-ESABOYS	0.179	0.470
	H09813		Homo sapiens mRNA; cDNA DKFZp564B076 KIAA1034 protein	0.181	0.179
101300		Hs.6445	Homo sapiens (cione s153) mRNA fragment		
123080	AA485303	Hs.205126	polymeric immunoglobulin receptor	0.182	
130016	AA055811	Hs.143131	transmembrane glycoprolein	0.186	
	AA455052		ESTS	0.188	
	AA252893 AA151676	Hs.33455	ESTs	0.189	
	D31888	Hs 78398	peptidyl arginine delminase; type li KIAA0071 protein	0.19 0.192	
		Hs.206738	ESTs; Moderately similar to IIII ALU SUB	0.192	
110882	N36001	Hs.17348	ESTs; Weakly similar to IIII ALU SUBFAMI	0.193	
	C20785	Hs.30514		0.195	
	N54792			0.196	
		Hs.24908	ESTs	0.196	
133348	AA214305		ESTs	0.196	
	W68388		ESTs; Weakly similar to KIAA0704 protein	0.196 0.197	
103158			hematopoletically expressed homeobox	0.198	
102347			tumor necrosis factor (ligand) superfami	0.2	
111351	N90223	Hs.23392	ESTs	0.2	
123495	AA599850	Hs.105747	ESTs; Wealty similar to similar to BPTV	0.2	
123502	AADZU448	HS.51403	Homo sapiens clone 24760 mRNA sequence KIAA0733 protein		
	R77539	Hs.15285		0.2 0.2	
131171	H04644	Hs.167619	ESTS: Weakly similar in IIII AI I I SI IREAMI	0.2	
133746	U44378	Hs.75862		0.2	
116459	AA621399	Hs.64193	ESTs	0.201	
109613		Hs.27519		0.202	
				0.202	
				0.204	
	W38294	Hs.34641		0.204	
	HG3521-HT			0.204 0.205	
	AA147537			0.208	
124571	N67470	Hs.173074		0.21	
129519	AA298786	Hs.112242	ESTs	0.21	
116724	F13665	Hs.65641	ESTs	0.21	
132932	T15482	Hs.6093 Hs.31446	EST8	0.21	
113803	W42789 N24899	175.J7446 LL, 6620		0.211	
110/52	N24899 AA187490	Hs 21041		0.212 n.242	
100 110	747 IVI 74V	1071	LUIS	0.212	

			•		
107295	T34527	Hs.80120	UDP-N-acetyl-alpha-D-galactosamine:polyp	0.212	
115262	AA279112	Hs.88594	ESTs	0.213	
115839	AA429038	Hs.40541	ESTs	0.213	
	X73079		polymeric immunoglobulin receptor	0.214	
	AA099820			0.215	
	AA182030		ESTs	0.217	
	AA084677			0.217	
	H09594	Hs.10299		0.217	
	Y00264		amyloid beta (A4) precursor protein (pro	0.217	
	T71333	Hs.13854	ESTs	0.219	
	AA055768			0.219	
	L02326		immunoglobulin lambda-like polypeptide 2	0.22	
	M86849	1.00110	Homo saptens connexin 26 (GJB2) mRNA, co		
	AA369245	He 1744R	ESTs; Weakly similar to IIII ALU SUBFAMI	0.222	
	H99211	Hs.40334	ESTs	0.222	
	R25385		KIAA0824 protein	0.222	
			trinucleotide repeat containing 9	0.222	
	T40530	Hs.8241	ESTs; Weakly similar to heat shock prote	0.223	
	AA600147		ESTs; Weakly similar to NADH-cytochrome	0.224	
	Z70295	Hs.32966		0.225	
	AA001049		0 ,		0.225
	R18070	Hs.3712	ubiquinol-cytochrome c reductase: Rieske	0.227	0.223
	D11900	Hs.3731	ESTs	0.227	
	AA233763				0.227
				•	0.23
	AA047151		Homo sapiens mRNA; cDNA DKFZp586P162		0.23
			ESTs; Weakly similar to Gag-Pol polyprot	0.233	
	AA261805		ESTS	0.234	
	H28581	Hs.15641	ESTS	0.234	
	T57112	1 la 000ero	yc20g11.s1 Stratagene lung (#937210) Hom	0.235	
	W45457	Hs.203559		0.235	
	R45480	Hs.164866		0.235	
	H64938	Hs.38331		0.235	
	U81607	Hs.788	A kinase (PRKA) anchor protein (gravin)	0.238	
			tumor necrosis factor receptor superfami	0.238	
	D31161	Hs.68613		0.238	
	AA425154			0.239	
132720		Hs.5541	ATPase; Ca++ transporting; ubiquitous	0.24	
	D62965	Hs.31297		0.24	
	R38678	Hs.12365		0.241	
	U35139	Hs.50130	necdin (mouse) homolog	0.244	
	AA084602			0.244	
	AA284755		CDW52 antigen (CAMPATH-1 antigen)	0.244	
			cadherin 19 (NOTE: redefinition of symbo	0.244	
	AA250745		protein kinase; cAMP-dependent; catalyti	0.244	
	M63438		Immunoglobulin kappa variable 1D-8	0.245	
	R78190		ESTs; Weakly similar to cDNA EST EMBL:TO		
– . – .	AA257976			0.245	
131713			immunoglobulin lambda gene cluster	0.246	
	AA147186			0.246	
	AA458652		ESTS	0.248	
	AA393810		ESTS	0.25	
133985		Hs.78146	platelet/endothelial cell adhesion molec	0.25	
	D43636	Hs.79025		0.25	
13940/	R38185	Hs.83954	Homo sapiens unknown mRNA	0.25	

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## Table 15: I chip – Met vs Normal query – up in Mets

Pkey: Unique Eos probeset identifier number

ExAccn: Exemplar Accession number, Genbank accession number

Unigene Title: Unigene gene title

Picey	Ex_Acen	UniG_ID	Title	Ratio Met/Normal
	T91443	Hs.193963	ESTs	18.71
	N63915		EST cluster (not in UniGene)	11.9
314522	AI732331	Hs.187750	ESTs; Moderately similar to IIII ALU CLA	7.23
	AW291875			6.06
308010	Al439190	Hs.181165	eukaryotic translation elongation factor	5.76
313774	AW136836	Hs.144583	ESTs	5.01
300734	AW205197	Hs.240951	ESTs	3.98
337895			CH22_EM:AC005500.GENSCAN,56-2	3.98
312339	AA524394		EST cluster (not in UniGene)	3.66
331644	T99544	Hs.173734	ESTs; Wealty similar to IIII ALU CLASS B	3.53
324643	AI436356	Hs.130729	ESTs	3.52
324302	AA543008	Hs.136806	ESTs; Wealty similar to IIII ALU SUBFAMI	3,41
314912	AH31345	Hs.161784	ESTs	3.33
319403	T98413		EST cluster (not in UniGene)	3.32
	AI761036		EST singleton (not in UniGene) with exon	3.27
331858	AA421163	Hs.163848	ESTs	3.22
315178	AW362945	Hs.162459	ESTs	3.21
321354	AA078493		EST cluster (not in UniGene)	3.18
337898			CH22_EM:AC005500.GENSCAN.56-5	3.16
322682	Al110679		EST cluster (not in UniGene)	3.15
313197	AI738851	Hs.222487	ESTs	3.1
308991	A1879831		EST singleton (not in UniGene) with exon	3.08
310016	AW449612	Hs.152475		3.05

## Table 16: I chip – Met vs Normal query – down in Mets

Phry: Unique Eos probeset identifier number
Ex-Accu: Exemplar Accession number, Genbank accession number
Unigene Title: Unigene gene title

Pkey	Ex_Accn	UniG_ID	title	Ratio Met/Norma	al
303044	AF127035		EST cluster (not in UniGene) with exon h	0.02	
		Hs 198267	mucin 4; tracheobronchial	0.03	
			aldo-keto reductase family 1; member B11	0.03	
336091			CH22_FGENES.689_3	0.04	
333657			CH22_FGENES.241_2	0.04	
333658	•		CH22_FGENES.241_4	0.04	
333737			CH22_FGENES.261_1	0.05	
333656			CH22_FGENES.240_4	0.05	
	AF039400	Hs.194659	chloride channel; calcium activated; fam	0.06	
336084	*****	11- 04000	CH22_FGENES.688_13	0.06	
			ESTs; Highly similar to secreted apoptos	0.06 0.07	
	AA434241 AF067797		EST singleton (not in UniGene) with exon EST cluster (not in UniGene) with exon h	0.07	
334030			CH22_FGENES.320_2	0.07	
332859				0.07	
333654			CH22 FGENES.240_2	0.07	
303270	AL120518	Hs.105352	ESTS	0.08	
320352	Y13323	Hs.145296	disintegrin protease	0.08	
333637			CH22_FGENES.229_2	0.08	
	AA382603		EST cluster (not in UniGene)	0.08	
	U67058		Human proteinase activated receptor-2 mR	0.08	
	X63597	Hs.2996 Hs.39720	sucrase-isomaliase ESTs	0.08 0.08	
	H75860 AI719930	ms.39120	EST singleton (not in UniGene) with exon	0.09	
	AA722425		EST cluster (not in UniGene)	0.09	
335188	roni zanzo		CH22_FGENES.507_3	0.09	
333730			CH22_FGENES.258_1	0.09	
	AA430373		EST singleton (not in UniGene) with exon	0.09	
336081			CH22_FGENES.688_10	0.1	
332071	AA598594			0.1	
	N28625		caveolin 1; caveolae protein; 22kD	0.1	
	AJ679622		immunoglobulin alpha 1	0.1	
	NM_00273		EST cluster (not in UniGene)	0.11	
	N23730 AWU62570		v-fos FBJ murine osteosarcoma viral onco	0.11 0.11	
	A1983437			0.11	
	N98619	Hs.62461	ARP2 (actin-related protein 2; yeast) ho	0.12	
333647	,,,,,,,,,,,		CH22_FGENES.235_2	0.12	
333588			CH22_FGENES.206_2	0.12	
321286	Al380940		EST cluster (not in UniGene)	0.12	
320727	U96044		EST cluster (not in UniGene)	0.13	
335687			CH22_FGENES.596_2	0.13	
	AA743462	Hs.165337		0.14	
335115		No 400044	CH22_FGENES.496_2	0.14	
324660	AA541644	TIS. 100044	CH22_EM:AC005500.GENSCAN.94-1	0.14 0.14	
	A1833168	Hs 184507	Homo sapiens Chromosome 16 BAC clone C		0.14
	AW293224			0.14	<b>V</b>
333646			CH22_FGENES.234_2	0.14	
335116			CH22_FGENES.496_3	0.14	
320211	AL039402	Hs.125783	DEME-6 protein	0.15	
336092			CH22_FGENES.689_6	0.15	
	D57823	Hs.92962	Sec23 (S. cerevisiae) homolog A	0.16	
	AF129532		EST cluster (not in UniGene) with exon h	0.16	
337954			CH22_EM:AC005500.GENSCAN.96-3	0.16	
336645			CH22_FGENES.26-1	0.16 0.16	
335651	AL044570	He 4/707€	CH22_FGENES.590_2	0.10	
336124		113.14(3/3	CH22_FGENES.701_9	0.17	
	AA877996	Hs.125378		0.17	
	AW044647			0.17	
	NM_00475		EST cluster (not in UniGene)	0.18	
		•			

302049	AA377072	Hs.129792	Homo sapiens Chromosome 16 BAC clone	CIT	0.18
336083			CH22_FGENES.688_12	0.18	
333653			CH22_FGENES.239_2	0.18	
323243	W44372		CH22_FGENES.688_12 CH22_FGENES.239_2 EST cluster (rod in UniGene)	0.19	
316610	AW087973	Hs.126731	ESTS	0.19	
315033	A1493046	Hs.146133	ESTs	0.19	
330551	U39840	Hs.105440	hepatocyte nuclear factor 3; alpha CH22 EGENES 231 2	0.19	
333642			CH22_FGENES.231_2	0.19	
301281	AA843986	Hs.190586	ESTS	0.2	
333626			CH22_FGENES.224_2	0.21	
303792	C75094	Hs.199839	ESTs; Highly similar to NG22 [H.saplens]	0.21	
332325	T79428	Hs.191264	ESTs	0.21	
321223	AA431366		EST cluster (not in UniGene)	0.21	
333635			CH22_FGENES.228_2	<b>0.22</b> .	
314645	A1808999	Hs.207570	CH22_FGENES.228_2 ESTs ESTs	0.22	
322929	Al365585	Hs.146246	ESTs	0.22	
324718	AJ557019	Hs.116467	ESTs	0.22	
335652			CH22_FGENES.590_3	0.22	
307783	AJ347274		EST singleton (not in UniGene) with exon	0.22	
331344	AA357927	Hs.70208	ESTs	0.22	
336088			CH22_FGENES.688_17	0.23	
	D83824	Hs.185055	BENE protein	0.23	
335692			CH22_FGENES.596_7	0.23	
333593			CH22_FGENES.210_2	0.23	
335667			BENE protein CH22_FGENES.596_7 CH22_FGENES.210_2 CH22_FGENES.590_18 ESTs	0.24	
314853	AA729232	Hs.153279	ESTs	0.24	
320244	AA296922	Hs.129778	gastrointestinal peptide ESTs	0.24	
				0.24	
	AA641485		EST singleton (not in UniGene) with exon	0.25	
335189			CH22_FGENES.507_4	0.25	

# Table 17: B survivor vs Mets – Up in B survivor

Pkey: Unique Eos probeset identifier number

ExAccu: Exemplar Accession number, Genbank accession number

UnigeneID: Unigene number

Unigene Title: Unigene gene title

				• • • • • • • • • • • • • • • • • • • •	
Pkey	Ex Accn	UnlG_JD	Complete Title	Ratio BS/Met	
101006	J04132	Hs.97087	CD3Z antigen; zeta polypeptide (TTT3 com	7.28	
	Z39050	Hs.21963		6.13	
130284	X82206	Hs.153961	ARP1 (actin-related protein 1; yeast) ho	5.77	
	HG3872-H		Immunoglobulin Gamma Heavy Chain, V(6)D		5.63
132461	AA405775	Hs.49005	hypothetical protein	5.62	
133808	M12759	Hs.76325	Human lg J chain gene	5.46	
133747	D86972	Hs.75863	KIAA0218 gene product	5.45	
123328	AA496968	Hs.105403	EST	5.28	
132671	X76302	Hs.54649	putative nucleic acid binding protein RY	5.25	
132018	AA293194	Hs.3737		5.22	
100186	D17516	Hs.4748	adenylate cyclase activating polypeptide	5.14	
	AA621202		DKFZP586D1519 protein	5.1	
	Z22555		CD36 antigen (collagen type t receptor;	5.06	
	T79203			4.99	
	U38864		zinc finger protein 212	4.96	
	H78003	Hs.15266		4.93	
		Hs.113025		4.92	
	W81301		ubiquitin specific protease 22	4.91	
		Hs.51483		4.77	
		Hs.30570		4.65	
	N74442	Hs.183696		4.6	
		Hs.72115		4.57	
	R93908			4.54	
	R16884	Hs.187462		4.48	
	T90672	Hs.238859		4.42	
		Hs.183232		4.41	
	D82061		Ke6 gene; mouse; human homolog of	4.4	
	T95085	Hs.125182		4.4	
		Hs.207422 Hs.105	glutamate receptor; ionotropic; N-methyl	4.32	
	L13268 S78873		RAB interacting factor	4.3 4.26	
	HG4593-H		Sodium Channel 1	4.24	
	HG3115-H		Goll-Mbp (Gb:L18862)	4.21	
			Homo sapiens mRNA; cDNA DKFZp566P234		
		Hs.22851		4.16	
		Hs.28608		4.15	
	T99373	Hs.189786		4.09	
	AA401091	1,00,00	ESTs	4.07	
		Hs.239676		4.06	
	X98206	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	H.saplens mRNA for UV-B repressed sequen		
		Hs.20010		4.03	
	L36720	Hs.106880		4.02	
	HG3236-H		Neurofibromatosis 2 Tumor Suppressor (Gbd.		
			KIAA0921 protein	3.98	
		Hs.90527		3.97	
123650	AA609332	Hs.180696	ESTs	3.94	
106482	AA451672	Hs.108824	ESTs; Wealty similar to cDNA EST yk415c1	3.94	
101909	S69265		Homo saptens mRNA for PLE21 protein; com	3.93	
108390	AA075070		zm86b6.s1 Stratagene ovarian cancer (#93		
			LYMPHOCYTE ANTIGEN LY-6A-2/LY-6E-1 F	PREC 3.93	
	U06643	Hs.99923	tectin; galactoside-binding; soluble; 7	3.89	
121038	AA398536	Hs.97365	ESTs	3.88	
	T83496	Hs.100610	ESTs	3.86	
	AA128946		ESTs	3.86	
	W79499	Hs.58580		3.85	
	L12060	Hs.1497	retinoic acid receptor; gamma	3.84	
	U79288		KIAA0513 gene product	3.83	
	H38209	Hs.32728		3.81	
	H49425	Hs.32992		3.78	
	R36138	Hs.152458		3.76	
	N27086	Hs.21068		3.74	
105142	AA164851	Hs.15380	ESTs; Wealtly similar to HERV-E envelope	3.73	

130248	U84569	Hs.153452	chromosome 21 open reading frame 2	3.73	
	AA020942	Hs.17200	STAM-like protein containing SH3 and ITA	3.73	
	AA521043 AA313880	Hs.185832		3.73	
	R60822	Hs.26805	EST185737 Colon cardnoma (HCC) cell lin EST	3.73 3.72	
100980	J03069	Hs.72931		3.72	
	U64863	Hs.158297	programmed cell death 1	3.7	
	AA151402 Y12661		ESTs VGF nerve growth factor inducible	3.7 3.69	
	X51699	Hs.2558		3.68	
	T99364	Hs.16074	Homo saplens mRNA; cDNA DKFZp564I153		3.66
	L19267 R15108		dystrophia myotonica-containing WD repea	3.65	
		Hs.8037 Hs.80540	ESTs KIAA0195 gene product	3.65 3.65	
124699	R06413	Hs.112278	errestin; beta 1	3.62	
	U03115	Hs.103945	Human V beta T-cell receptor (TCRBV) gen	3.62	•
	AA253412		potassium intermediate/small conductance ESTs	3.62 3.61	
	R41389	Hs.26159		3.6	
	R49548	Hs.169681	death effector domain-containing	3.6	
	L02326 H84261		Immunoglobulin kunbda-like polypeptide 2	3.59	
	U41804	Hs.54411	ESTs; Wealdy similar to similar to GTP-b putative T1/ST2 receptor binding protein	3.56 3.55	
	R50247	Hs.91600	ESTs	3,55	
	X60483	Hs.91031	H4 histone family; member D	3.54	
	U07664 AA412686	Hs.37035 Hs.97955		3.52 3.52	
	AA005315		ESTs; Wealthy similar to KIAA0747 protein	3.51	
	N66580	Hs.161496	EST; Wealthy similar to HC1 ORF [M.muscul	3.51	
	R08160 H38858	Hs.222529 Hs.251783	ESTs; Wealty similar to IIII ALU SÜBFAMI	3.51	
			KIAA1036 protein	3.5 3.5	
121774	AA421758	Hs.98361	ESTs	3.49	
123413	AA521448	Hs.103845	ESTs	3.49	
	X93996	Hs./02// Hs 239663	ESTs; Weakly similar to sallwary proline myeloki/lymphold or mixed-lineage leukem	3.49 3.48	
	AA477715		golgi autoaniigen; golgin subfamily a; 3	3.47	
	H99394	Hs.40339	EST	3.47	
	X87852 D55696	Hs.21432 Hs.18069	H.saplens mRNA for SEX gene	3.46	
	T17386	Hs.164501	protease; cysteine; 1 (legumain) ESTs	3.43 3.43	
	HG4018-HT		Opioid-Binding Cell Adhesion Molecule	3.43	
	X94612	Hs.41749	protein kinase; cGMP-depandent; type ii KIAA0551 protein	3.43	
	X68688	Hs.72991	zinc finger protein 33b (KOX 31)	3.42 3.42	
	R16231	Hs.106620	Homo sapiens done 23950 mRNA sequence		
	AA488881			3.39	
	AA496685		KIAA0809 protein suppressor of variegation 3-9 (Drosophil	3.38 3.38	
	F11065	Hs.79363	ESTs	3.36	
	U88629		ELL-RELATED RNA POLYMERASE II; ELON		3.34
	N31963 R50295	Hs.44286 Hs.25703	ESTs ESTs	3.33 3.33	
	AA441792		chord domain-containing protein 1	3.33	
	AA436186	Hs.30662	ESTS	3.32	
	D16105 W92548		leukocyte tyrosine kinase ESTs	3.31 3.31	
			PR domain containing 2; with ZNF domain	3.3	
113285	T66830	Hs.182712	ESTs	3.3	
	AA232648		ESTs	3.29	
118964	AA242904 N93330		proline-rich Gla (G-carboxyglutamic acid Homo sapiens clone 24722 unknown mRNA;	3.29 n	3.29
127621	Al218205	Hs.116204		3.29	U.LU
	U40002		lipase; hormone-sensitive	3.28	
114371	41033 AA055404		ESTs; Wealty similar to IIII ALU SUBFAMI	3.28 3.27	
121347	AA405181		ESTs Weakly summar to this ALO SOBFAMILE	3.25	
	AA302657	Hs.192028	ESTs	3.25	
121327 111204	AA404286 NSS205		peptidytprolyl isomerase F (cyclophilin	3.25	
	AA397830		ESTs ESTs: Weakly similar to GLIOMA PATHOGEN	3.25 IE	3.25
130024	U15197	Hs.241560	Human histo-blood group ABO protein mRNA		
125005		Hs.193727		3.24	
	AA398662 AA398281		ESTs FSTs	3.24 3.23	
117101	H94043		DKFZP58611419 protein	3.23	
			-		

130708	U40490	Hs.18136	nicotinamide nucleotide transhydrogenase	3.23	
130270	L40399	Hs.153820	hypothetical protein	3.22	
		Hs.29383	_ 11.	3.22	
	HG4194-H		Sodium/Hydrogen Exchanger 5	3.22	
	AA481072	HS.99743	ESTS	3.21	
	AA070204 AE007833	Un 150265	zm68b3.s1 Stratagene neurcepithellum (#9 Homo sapiens kruppel-related zinc finger	3.2 3.2	
	J04130	Hs.75703		3.2	
	R52145	Hs.25894		3.19	
	W38053		Accession not listed in Genbank	3.19	
	AA446221		F-box protein containing leucine-rich re	3.19	
	AA179161		ESTs	3.19	
	W85707	Hs.75936	erythrocyte membrane protein band 4.9 (d	3.18	0.40
	AA491317 H62793	Hs.221892	aa65c01.r1 NCI_CGAP_GCB1 Homo sapien		3.18
			translocase of inner mitochondrial membr	3.18 3.17	
	AA481404		ESTs	3.16	
		Hs.98110		3.16	
133872	T79868	Hs.180903	hypothetical protein	3.16	
	U12897	Hs.5022	Imprinted in Prader-Willi syndrome	3.16	
	X60382	Hs.179729	collagen; type X; alpha 1 (Schmid metaph	3.15	
		HS.118463	H.saplens mRNA for unknown liver orphan	3.15	
	N22360 U48224	Hs.43153	beaded filament structural protein 2; ph	3.15 3.14	
	X99459		adaptor-related protein complex 3; sigma	3.14	
		Hs.120244		3.14	
		Hs.97374		3.13	
128582	U22963	Hs.101840	major histocompatibility complex; class	3.13	
	R78565	Hs.138395		3.13	
	T54342	Hs.222506		3.13	
	R23146 R33616	Hs.23466 Hs.24688	EST	3.13	
		Hs.71124	ESTs	3.12 3.11	
	X75546	Hs.230	fibromodulin	3.11	
129944	L00389	Hs.1361	cytochrome P450; subfamily I (aromatic c	3.11	
		Hs.237709		3.11	
	H94949		trophinin-assisting protein (tastin)	3.1	
	H81181		ESTs; Wealdy similar to unknown [S.cerev	3.1	
	L35546 R72293	Hs.89709 Hs.6179	glutamate-cysteine ligase (gamma-glutamy Homo sapiens mRNA; cDNA DKFZp586K232	3.1 m #	3.1
129266			sudD (suppressor of bimD6; Aspergillus n		J. I
126982	AA211419			3.09 3.09	
		Hs.29261	small inducible cytokine A5 (RANTES) ESTs; Weakly similar to serine protesse	3.09 3.08	
131594 134910	AA211419 H29723 AA431320	Hs.29261 Hs.9100	small Inducible cytokine A5 (RANTES) ESTs; Weakly similar to serine protease ESTs	3.09 3.08 3.08	
131594 134910 103505	AA211419 H29723 AA431320 Y09912	Hs.29261 Hs.9100 Hs.33102	small Inducible cytokine A5 (RANTES) ESTs; Weakly similar to serine protease ESTs transcription factor AP-2 beta (activati	3.09 3.08 3.08 3.08	
131594 134910 103505 110525	AA211419 H29723 AA431320 Y09912 H57330	Hs.29261 Hs.9100 Hs.33102 Hs.37430	small Inducible cytokine A5 (RANTES) ESTs; Weakly similar to serine protease ESTs transcription factor AP-2 beta (activati EST	3.09 3.08 3.08 3.08 3.07	
131594 134910 103505 110525 123276	AA211419 H29723 AA431320 Y09912 H57330 AA491270	Hs.29261 Hs.9100 Hs.33102 Hs.37430 Hs.187946	small Inducible cytokine A5 (RANTES) ESTs; Weakly similar to serine protease ESTs transcription factor AP-2 beta (activati EST ESTs	3.09 3.08 3.08 3.08 3.07 3.06	
131594 134910 103505 110525 123276 130519	AA211419 H29723 AA431320 Y09912 H57330 AA491270 H91819	Hs.29261 Hs.9100 Hs.33102 Hs.37430	small Inducible cytokine A5 (RANTES) ESTs; Weakly similar to serine protease ESTs transcription factor AP-2 beta (activati EST ESTS ESTs; Moderately similar to KIAAD400 [H.	3.09 3.08 3.08 3.08 3.07 3.06 3.06	
131594 134910 103505 110525 123276 130519 126621	AA211419 H29723 AA431320 Y09912 H57330 AA491270	Hs.29261 Hs.9100 Hs.33102 Hs.37430 Hs.187946 Hs.10569	small Inducible cytokine A5 (RANTES) ESTs; Weekly similar to serine protease ESTs transcription factor AP-2 beta (activati EST ESTs ESTs ESTs; Moderately similar to KIAAD400 (H. zq01h08.r1 Stratagene muscle 937209 Homo	3.09 3.08 3.08 3.08 3.07 3.06 3.06	
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131594 134910 103505 110525 123276 130519 126621 134327 103513 131243	AA211419 H29723 AA431320 Y09912 H57330 AA491270 H91819 AA192638 AF006041 Y10209 R16667	Hs.29261 Hs.9100 Hs.33102 Hs.37430 Hs.187946 Hs.10669 Hs.178743 Hs.24752	small Inducible cytokine A5 (RANTES) ESTs; Weakly similar to serine protease ESTs transcription factor AP-2 beta (activati EST ESTs ESTs; Moderately similar to KIAAD400 [H. zq01h08.r1 Stratagene muscle 937209 Homo death-associated protein 6 H.sapkens mRNA for CD31. protein spectrin SH3 domain binding protein 1	3.09 3.08 3.08 3.07 3.06 3.06 3.05 3.04 3.04 3.04	
131594 134910 103505 110525 123276 130519 126621 134327 103513 131243 115187	AA211419 H29723 AA431320 Y09912 H57330 AA491270 H91819 AA192638 AF006041 Y10209 R16667 AA261805	Hs.29261 Hs.9100 Hs.33102 Hs.37430 Hs.187946 Hs.10569 Hs.178743 Hs.24752 Hs.44021	small Inducible cytokine A5 (RANTES) ESTs; Weekly similar to serine protease ESTs transcription factor AP-2 beta (activati EST ESTs ESTs; Moderately similar to KIAAD400 [H. zq01h08.r1 Stratagene muscle 937209 Homo death-associated protein 6 H.saplens mRNA for CD3L protein spectrin SH3 domain binding protein 1 ESTs	3.09 3.08 3.08 3.08 3.07 3.06 3.06 3.05 3.04 3.04 3.04	
131594 134910 103505 110525 123276 130519 126621 134327 103513 131243 115187 107543	AA211419 H29723 AA431320 Y09912 H57330 AA491270 H91819 AA192638 AF006041 Y10209 R16667 AA261805 Z43703	Hs.29261 Hs.9100 Hs.33102 Hs.37430 Hs.187946 Hs.10669 Hs.178743 Hs.24752 Hs.44021 Hs.4552	small Inducible cytokine A5 (RANTES) ESTs; Weakly similar to serine protease ESTs transcription factor AP-2 beta (activati EST ESTs ESTs; Moderately similar to KIAA0400 [H. zq01h08.r1 Stratagene muscle 937209 Homo death-associated protein 6 H.saplens mRNA for CD31 protein spectrin SH3 domain binding protein 1 ESTs Homo sapiens HRIHFB2157 mRNA; partial or	3.09 3.08 3.08 3.08 3.07 3.06 3.06 3.05 3.04 3.04 3.04 3.04 3.04	
131594 134910 103505 110525 123276 130519 126621 134327 103513 131243 115187 107543 134051	AA211419 H29723 AA431320 Y09912 H57330 AA491270 H91819 AA192638 AF006041 Y10209 R16667 AA261805 Z43703 S67070	Hs.29261 Hs.9100 Hs.33102 Hs.37430 Hs.187946 Hs.10569 Hs.178743 Hs.24752 Hs.44021 Hs.4552 Hs.78846	small Inducible cytokine A5 (RANTES) ESTs; Weekly similar to serine protease ESTs transcription factor AP-2 beta (activati ESTs ESTs ESTs; Moderately similar to KIAAD400 [H. zq01h08.r1 Stratagene muscle 937209 Homo death-associated protein 6 H.saplens mRNA for CD3L protein spectrin SH3 domain binding protein 1 ESTs Homo sapiens HRIHFB2157 mRNA; partial or heat shock 27kD protein 2	3.09 3.08 3.08 3.08 3.07 3.06 3.06 3.05 3.04 3.04 3.04 3.04 3.04 3.04 3.04	
131594 134910 103505 110525 123276 130519 126621 134327 103513 131243 115187 107543 134051 113461	AA211419 H29723 AAA31320 Y09912 H57330 H57819 AA491270 H91819 AA192638 AF006041 Y10209 R16657 AA251805 Z43703 S67070 T85737	Hs.29261 Hs.9100 Hs.33102 Hs.37430 Hs.187946 Hs.10669 Hs.178743 Hs.24752 Hs.44021 Hs.4552 Hs.78846 Hs.193536	small inducible cytokine A5 (RANTES) ESTs; Weakly similar to serine protease ESTs transcription factor AP-2 beta (activati EST ESTs ESTs; Moderately similar to KIAAD400 [H. zq01h08.r1 Stratagene muscle 937209 Homo death-associated protein 6 H.saplens mRNA for CD31. protein spectrin SH3 domain binding protein 1 ESTs Homo sapiens HRIHFB2157 mRNA; partial or heat shock 27kD protein 2 ESTs	3.09 3.08 3.08 3.08 3.07 3.06 3.06 3.05 3.04 3.04 3.04 3.04 3.04 3.04 3.04 3.04	
131594 134910 103505 110525 123276 130519 126621 134327 103513 131243 115187 107543 134051 113461 130490	AA211419 H29723 AA431320 Y09912 H57330 AA491270 H91819 AA192638 AF006041 Y10209 R16667 AA261805 Z43703 S67070	Hs.29261 Hs.9100 Hs.33102 Hs.37430 Hs.187946 Hs.10569 Hs.178743 Hs.24752 Hs.44021 Hs.4552 Hs.78846 Hs.193536 Hs.158164	small inducible cytokine A5 (RANTES) ESTs; Weakly similar to serine protease ESTs ESTs; Weakly similar to serine protease ESTs ESTs ESTs; Moderately similar to KIAAD400 [H. zq01h08.r1 Stratagene muscle 937209 Homo death-associated protein 6 H.saplens mRNA for CD3L protein spectrin SH3 domain binding protein 1 ESTs Homo sapiens HRIHFB2157 mRNA; partial or heat shock 27kD protein 2 ESTs ATP-binding cassette; sub-family B (MDR/	3.09 3.08 3.08 3.08 3.07 3.06 3.06 3.05 3.04 3.04 3.04 3.04 3.04 3.04 3.04	
131594 134910 103505 110525 123276 130519 126621 134327 103513 131243 115187 107543 134051 113461 113461 130490 128843 100941	AA211419 H29723 AA431320 Y09912 H57330 AA491270 H91819 AA192638 AF006041 Y10209 Y10209 X3703 S67070 T86737 X57522 AA234141 HG862-HTM	Hs.29261 Hs.9100 Hs.33102 Hs.37430 Hs.187946 Hs.10669 Hs.178743 Hs.24752 Hs.44021 Hs.4552 Hs.193536 Hs.193536 Hs.193536 Hs.193536	small Inducible cytokine A5 (RANTES) ESTs; Weekly similar to serine protease ESTs transcription factor AP-2 beta (activati EST ESTs ESTs; Moderately similar to KIAAD400 [H. zq01108.r1 Stratagene muscle 937209 Homo death-associated protein 6 H.saplens mRNA for CD3L protein spectrin SH3 domain binding protein 1 ESTs Homo sapiens HRIHFB2157 mRNA; partial or heat shock 27kD protein 2 ESTs ATP-binding cassette; sub-family B (MDR/ katanin p80 (WD40-containing) subunit B Transition Protein 2	3.09 3.08 3.08 3.07 3.06 3.06 3.05 3.04 3.04 3.04 3.04 3.04 3.04 3.04 3.03 3.03	
131594 134910 103505 110525 123276 130519 126621 134327 103513 131243 115187 107543 134051 113461 1130490 1128843 100941 122268	AA211419 H29723 AA431320 Y09912 H57330 AA491270 H91819 AA192638 AF006041 Y10209 R16667 AA251805 Z43703 S67070 T86737 X57522 AA234141 HG862-HTK AA436855	Hs.29261 Hs.9100 Hs.33102 Hs.37430 Hs.187946 Hs.10669 Hs.178743 Hs.24752 Hs.44021 Hs.4552 Hs.78846 Hs.193536 Hs.158164 Hs.158164 Hs.158164 Hs.178202	small Inducible cytokine A5 (RANTES) ESTs; Weekly similar to serine protease ESTs transcription factor AP-2 beta (activati EST ESTs ESTs; Moderately similar to KIAAD400 [H. zq01h08.r1 Stratagene muscle 937209 Homo death-associated protein 6 H.saplens mRNA for CD3L protein spectrin SH3 domain binding protein 1 ESTs Homo sapiens HRIHFB2157 mRNA; partial or heat shock 27kD protein 2 ESTs ATP-binding cassette; sub-family B (MDR/ katanin p80 (WD40-containing) subunit B Transition Protein 2 ESTs	3.09 3.08 3.08 3.08 3.06 3.06 3.05 3.04 3.04 3.04 3.04 3.04 3.04 3.03 3.03	
131594 134910 103505 110525 123276 130519 126621 134327 103513 131243 115187 107543 134051 113461 113461 113893 100941 122268 107425	AA211419 H29723 AA431320 Y09912 H57330 AA491270 H91819 AA192638 AF006041 Y10209 R16667 AA251805 Z43703 S67070 T86737 X57522 AA23414 HG862-HTK AA436855 W26719	Hs.29261 Hs.9100 Hs.33102 Hs.37430 Hs.187946 Hs.10669 Hs.178743 Hs.24752 Hs.44021 Hs.4552 Hs.193536 Hs.193536 Hs.193536 Hs.193536	small inducible cytokine A5 (RANTES) ESTs; Weakly similar to serine protease ESTs transcription factor AP-2 beta (activati EST ESTS ESTS; Moderately similar to KIAAD400 [H. 2011/08.r1 Stratagene muscle 937209 Homo death-associated protein 6 H.saplens mRNA for CD3L protein spectrin SH3 domain binding protein 1 ESTs Homo sapiens HRIHFB2157 mRNA; partial or heat shock 27kD protein 2 ESTs ATP-binding cassette; sub-family B (MDR/ katarian p80 (WD40-containing) subunit B Transition Protein 2 ESTs ESTs	3.09 3.08 3.08 3.08 3.06 3.06 3.05 3.04 3.04 3.04 3.04 3.04 3.04 3.03 3.03	
131594 134910 103505 110525 123276 130519 126621 134327 103513 131243 115187 107543 134051 113461 130490 128843 100941 122268 107425 130930	AA211419 H29723 AA431320 Y09912 H57330 AA491270 H91819 AA192638 AF006041 Y10209 R16667 AA251805 Z43703 S67070 T86737 X57522 AA234141 HG882-HTT AA436855 W26719 U19261	Hs.29261 Hs.9100 Hs.33102 Hs.37430 Hs.187946 Hs.10669 Hs.178743 Hs.24752 Hs.44021 Hs.4552 Hs.78846 Hs.193536 Hs.158164 Hs.203004 862 Hs.178202 Hs.30204	small inducible cytokine A5 (RANTES) ESTs; Weakly similar to serine protease ESTs transcription factor AP-2 beta (activati EST ESTS ESTS; Moderately similar to KIAAD400 [H. zq01h08.r1 Stratagene muscle 937209 Homo death-associated protein 6 H.saplens mRNA for CD3L protein spectrin SH3 domain binding protein 1 ESTs Homo sapiens HRIHFB2157 mRNA; partial or heat shock 27kD protein 2 ESTs ATP-binding cassette; sub-family B (MDR/ katanin p80 (WD40-containing) subunit B Transition Protein 2 ESTs ESTs ESTs ESTs	3.09 3.08 3.08 3.07 3.06 3.06 3.04 3.04 3.04 3.04 3.04 3.03 3.03 3.03	
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131594 134910 103505 110525 123276 130519 126621 134327 103513 131243 115187 107543 134051 113461 130490 128843 100941 122268 107425 130930 132958 100973 100973 100974	AA211419 H29723 AAA31320 Y091270 H91819 AA192538 AF006041 Y10209 R16667 AA261805 Z43703 S67070 T86737 X57522 AA234141 HG862-HT8 AA436855 W26719 U19261 W90338 J02888	Hs.29261 Hs.9100 Hs.33102 Hs.37430 Hs.187946 Hs.10669 Hs.178743 Hs.24752 Hs.44021 Hs.4552 Hs.78846 Hs.193536 Hs.158164 Hs.203004 862 Hs.178202 Hs.30204 Hs.6147 Hs.6147 Hs.73956 Hs.28774	small inducible cytokine A5 (RANTES) ESTs; Weakly similar to serine protease ESTs transcription factor AP-2 beta (activati EST ESTS ESTS; Moderately similar to KIAAD400 [H. zq01h08.rl Stratagene muscle 937209 Homo death-associated protein 6 H.saplens mRNA for CD3L protein spectrin SH3 domain binding protein 1 ESTs Homo sapiens HRIHFB2157 mRNA; partial or heat shock 27kD protein 2 ESTs ATP-binding cassette; sub-family B (MDR/ katanin p80 (WD40-containing) subunit B Transition Protein 2 ESTs ESTs TNF receptor-associated factor 1 KIAA1075 protein NDD(P)H menadione oxidoreductase 2; diox ESTs	3.09 3.08 3.08 3.06 3.06 3.05 3.04 3.04 3.04 3.04 3.04 3.03 3.03 3.03	
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131594 134910 103505 110525 123276 130519 126621 134327 103513 131243 115187 107543 134061 113461 130490 128843 100941 122268 107425 130930 132958 100973 104924 12998 130023 129636 1130023	AA211419 H29723 AAA31320 Y091270 H91819 AA192538 AF006041 Y10209 R16667 AA251805 Z43703 S57070 X57522 AA234141 HG862-HTI AAA36855 W26719 U19261 W90398 J02888 AA058532 Y10055 X133461 M33493 R42836	Hs.29261 Hs.9100 Hs.33102 Hs.37430 Hs.187946 Hs.10569 Hs.178743 Hs.24752 Hs.44021 Hs.4552 Hs.183536 Hs.158164 Hs.158164 Hs.203004 62 Hs.178202 Hs.30204 Hs.6147 Hs.6147 Hs.62808 Hs.239600 Hs.184504 Hs.1239600 Hs.184504 Hs.23198	small inducible cytokine A5 (RANTES) ESTs; Weakly similar to serine protease ESTs ESTs ESTs ESTs ESTs; Moderately similar to KIAAD400 [H. zq01h08.r1 Stratagene muscle 937209 Homo death-associated protein 6 H.saplens mRNA for CD31. protein spectrin SH3 domain binding protein 1 ESTs Homo sapiens HRIHFB2157 mRNA; partial or heat shock 27kD protein 2 ESTs ATP-binding cassette; sub-family B (MDR/ katanin p80 (WD40-containing) subunit B Transition Protein 2 ESTs ESTs ESTs TNF receptor-associated factor 1 KIAA1075 protein NAD(P)H menadione oxidoreductase 2; diox ESTs phospholnostitide-3-kinase; catalytic; de calmodulin-like 3 tryptase; alpha ESTs	3.09 3.08 3.08 3.07 3.06 3.05 3.04 3.04 3.04 3.04 3.04 3.03 3.03 3.03	
131594 134910 103505 110525 123276 130519 126621 134327 103513 131243 131243 131243 134061 113461 130490 128843 100941 122268 107425 130930 132958 100973 104924 129988 130023 132958 130023 132958 130023 132958 130023 132958	AA211419 H29723 AAA31320 Y09912 Y09912 Y09913 AA491270 H91819 AA192638 AF006041 Y10209 R16667 AA261805 Z43703 S67070 T86737 X57522 AA234141 HG862-HT8 AA436855 W226719 U19261 U19268 AA058532 Y10055 X13461 R324936 X24925	Hs.29261 Hs.9100 Hs.33102 Hs.37430 Hs.187946 Hs.10669 Hs.178743 Hs.24752 Hs.44021 Hs.4552 Hs.78846 Hs.193536 Hs.158164 Hs.203004 622 Hs.178202 Hs.30204 Hs.6147 Hs.6147 Hs.6147 Hs.162808 Hs.28774 Hs.162808 Hs.239600 Hs.184504 Hs.23198 Hs.83169	small inducible cytokine A5 (RANTES) ESTs; Weekly similar to serine protease ESTs ESTs transcription factor AP-2 beta (activati EST ESTs ESTs; Moderately similar to KIAAD400 [H. zq01108.r1 Stratagene muscle 937209 Homo death-associated protein 6 H.saplens mRNA for CD3L protein spectrin SH3 domain binding protein 1 ESTs Homo sapiens HRIHFB2157 mRNA; partial or heat shock 27kD protein 2 ESTs ATP-binding cassette; sub-family B (MDR/ katanin p80 (WD40-containing) subunit B Transition Protein 2 ESTs ESTs ESTs ESTs ESTs ESTs TNF receptor-associated factor 1 KIAA1075 protein NAD(P)H menadione oxidoreductase 2; diox ESTs phospholnostiide-3-kinase; catalytic; de calmodulin-like 3 tryptase; alpha ESTs matrix metalloproteinase 1 (interstiital	3.09 3.08 3.08 3.06 3.06 3.05 3.04 3.04 3.04 3.04 3.04 3.03 3.03 3.03	
131594 134910 103505 110525 123276 130519 126621 134327 103513 131243 115187 107543 134051 113461 130490 128843 100941 122268 107425 130930 132958 100973 104924 12998 130023 129536 1100756	AA211419 H29723 AA431320 Y09912 AA491270 H91819 AA192638 AF006041 Y10209 R16667 AA261805 Z43703 S67070 T85737 X857372 AA234141 HG862-HTR AA436855 W26719 U19261 U19261 W90398 AA058532 Y10055 X13461 M33493 R42836 X54925 HG3565-HT	Hs.29261 Hs.9100 Hs.33102 Hs.37430 Hs.187946 Hs.10669 Hs.178743 Hs.24752 Hs.44021 Hs.4552 Hs.78846 Hs.193536 Hs.158164 Hs.203004 622 Hs.178202 Hs.30204 Hs.6147 Hs.6147 Hs.6147 Hs.162808 Hs.28774 Hs.162808 Hs.239600 Hs.184504 Hs.23198 Hs.83169	small inducible cytokine A5 (RANTES) ESTs; Weakly similar to serine protease ESTs transcription factor AP-2 beta (activati EST ESTS ESTS; Moderately similar to KIAAD400 [H. zq01h08.rl Stratagene muscle 937209 Homo death-associated protein 6 H.saplens mRNA for CD3L protein spectrin SH3 domain binding protein 1 ESTs Homo sapiens HRIHFB2157 mRNA; partial or heat shock 27kD protein 2 ESTs ATP-binding cassette; sub-family B (MDR/ katanin p80 (WD40-containing) subunit B Transition Protein 2 ESTs TNF receptor-associated factor 1 KIAA1075 protein NAD(P)H menadione oxidoreductase 2; diox ESTs phospholnositide-3-kinase; catalytic; de calmodulin-like 3 tryptase; alpha ESTs matrix metalloproteinase 1 (interstittal Zinc Finger Protein (Gb:M88357)	3.09 3.08 3.08 3.07 3.06 3.06 3.04 3.04 3.04 3.04 3.04 3.03 3.03 3.03	
131594 134910 103505 1110525 123276 130519 126621 134327 103513 131243 115187 107543 134051 113461 113461 113461 113461 113461 113465 113490 128843 100941 129888 100973 104924 129938 130023 112015 103036 1010756 1030425	AA211419 H29723 AA431320 Y09912 H57330 AA491270 H91819 AA192638 AF006041 Y10209 R16667 AA261805 Z43703 S67070 T86737 X57522 AA234141 HG862-HTT AA436855 H032684 H032684 H032684 H032685 H033685HT X97301	Hs.29261 Hs.9100 Hs.37430 Hs.187946 Hs.10669 Hs.178743 Hs.24752 Hs.44021 Hs.4552 Hs.78846 Hs.193536 Hs.158164 Hs.203004 852 Hs.30204 Hs.6147 Hs.73956 Hs.28774 Hs.162808 Hs.239600 Hs.184504 Hs.23198 Hs.83169 3768	small inducible cytokine A5 (RANTES) ESTs; Weakly similar to serine protease ESTs transcription factor AP-2 beta (activati EST ESTS ESTS; Moderately similar to KIAAD400 [H. 201h08.r1 Stratagene muscle 937209 Homo death-associated protein 6 H.saplens mRNA for CD3L protein spectrin SH3 domain binding protein 1 ESTs Homo sapiens HRIHFB2157 mRNA; partial or heat shock 27kD protein 2 ESTs ATP-binding cassette; sub-family B (MDR/ katanin p80 (WD40-containing) subunit B Transition Protein 2 ESTs ESTs TNF receptor-associated factor 1 KIAA1075 protein NAD(P)H menadione oxidoreductase 2; diox ESTs phospholnositide-3-kinase; catalytic; de calmodulin-like 3 tryptase; alpha ESTs matrix metalloproteinase 1 (interstitial Zinc Finger Protein (Gb:M88357) H.saplens mRNA for Ptg-11 protein	3.09 3.08 3.08 3.07 3.06 3.06 3.04 3.04 3.04 3.04 3.03 3.03 3.03 3.03	
131594 134910 103505 1110525 123276 130519 126621 134327 103513 131243 115187 107543 134051 113461 113461 113461 122268 100941 122268 100941 122268 100973 104924 129938 130023 129536 112015 103425 103425 103425 118291	AA211419 H29723 AA431320 Y09912 AA491270 H91819 AA192638 AF006041 Y10209 R16667 AA261805 Z43703 S67070 T85737 X857372 AA234141 HG862-HTR AA436855 W26719 U19261 U19261 W90398 AA058532 Y10055 X13461 M33493 R42836 X54925 HG3565-HT	Hs.29261 Hs.9100 Hs.33102 Hs.37430 Hs.187946 Hs.10669 Hs.178743 Hs.24752 Hs.44021 Hs.4552 Hs.78846 Hs.193536 Hs.158164 Hs.203004 622 Hs.178202 Hs.30204 Hs.6147 Hs.6147 Hs.6147 Hs.162808 Hs.28774 Hs.162808 Hs.239600 Hs.184504 Hs.23198 Hs.83169	small inducible cytokine A5 (RANTES) ESTs; Weakly similar to serine protease ESTs transcription factor AP-2 beta (activati EST ESTS ESTS; Moderately similar to KIAAD400 [H. zq01h08.r1 Stratagene muscle 937209 Homo death-associated protein 6 H.saplens mRNA for CD31, protein spectrin SH3 domain binding protein 1 ESTs Homo sapiens HRIHFB2157 mRNA; partial or heat shock 27kD protein 2 ESTs ATP-binding cassette; sub-family B (MDR/ katanin p80 (WD40-containing) subunit B Transition Protein 2 ESTs ESTs ESTs TNF receptor-associated factor 1 KIAA1075 protein NAD(P)H menadione oxidoreductase 2; diox ESTs phosphoinositide-3-kinase; catalytic; de calmodulin-like 3 tryptase; alpha ESTs matrix metalloproteinase 1 (interstitial Zinc Finger Protein (Sb:M88357) H.saplens mRNA for Ptg-11 protein	3.09 3.08 3.08 3.07 3.06 3.06 3.04 3.04 3.04 3.04 3.04 3.03 3.03 3.03	
131594 134910 103505 110525 123276 130519 126621 134327 107543 131243 131243 134051 1130490 128843 100941 122268 107425 130930 132958 100973 104924 129938 130023 129536 1129536 102036 102036 102036 102036 103036	AA211419 H29723 AAA31320 Y091270 H91819 AA192538 AF006041 Y10209 R16667 AA261805 Z43703 S57070 T86737 X57522 AA234141 HG862-HT8 AA436855 W26719 U19261 W990398 J02888 AA058532 Y10055 X133461 M33493 R42836 X54925 HG3665-HT	Hs.29261 Hs.9100 Hs.33102 Hs.37430 Hs.187946 Hs.10569 Hs.178743 Hs.24752 Hs.44021 Hs.4552 Hs.158164 Hs.158164 Hs.158164 Hs.203004 Hs.178202 Hs.178202 Hs.178202 Hs.178202 Hs.178203 Hs.28774 Hs.162808 Hs.239600 Hs.239600 Hs.23198 Hs.83169 3768 Hs.138746	small inducible cytokine A5 (RANTES) ESTs; Weakly similar to serine protease ESTs transcription factor AP-2 beta (activati EST ESTS ESTS; Moderately similar to KIAAD400 [H. 201h08.r1 Stratagene muscle 937209 Homo death-associated protein 6 H.saplens mRNA for CD3L protein spectrin SH3 domain binding protein 1 ESTs Homo sapiens HRIHFB2157 mRNA; partial or heat shock 27kD protein 2 ESTs ATP-binding cassette; sub-family B (MDR/ katanin p80 (WD40-containing) subunit B Transition Protein 2 ESTs ESTs TNF receptor-associated factor 1 KIAA1075 protein NAD(P)H menadione oxidoreductase 2; diox ESTs phospholnositide-3-kinase; catalytic; de calmodulin-like 3 tryptase; alpha ESTs matrix metalloproteinase 1 (interstitial Zinc Finger Protein (Gb:M88357) H.saplens mRNA for Ptg-11 protein	3.09 3.08 3.08 3.07 3.06 3.05 3.04 3.04 3.04 3.04 3.04 3.03 3.03 3.03	
131594 134910 103505 110525 123276 130519 126621 134327 107543 131243 131243 134051 1130490 128843 100941 122268 107425 130930 132958 100973 104924 129938 130023 129536 1129536 102036 102036 102036 102036 103036	AA211419 H29723 AA431320 Y09912 H57330 AA491270 H91819 AA192638 AF006041 Y10209 R16667 AA261805 Z43703 S8737 X57522 AA234141 HG882-HT7 AA436855 W19261 W90398 JJ2888 AA058532 Y10025 X13461 M33493 R42836 X54925 X13461 M33493 R42836 K54926 K549365 HT	Hs.29261 Hs.9100 Hs.37430 Hs.187946 Hs.10669 Hs.178743 Hs.24752 Hs.44021 Hs.4552 Hs.78846 Hs.193536 Hs.158164 Hs.203004 852 Hs.30204 Hs.6147 Hs.73956 Hs.28774 Hs.162808 Hs.239600 Hs.184504 Hs.23198 Hs.83169 3768	small inducible cytokine A5 (RANTES) ESTs; Weakly similar to serine protease ESTs transcription factor AP-2 beta (activati EST ESTS ESTS; Moderately similar to KIAAD400 [H. zq01h08.r1 Stratagene muscle 937209 Homo death-associated protein 6 H.saplens mRNA for CD31. protein spectrin SH3 domain binding protein 1 ESTs Homo sapiens HRIHFB2157 mRNA; partial of heat shock 27kD protein 2 ESTs ATP-binding cassette; sub-family B (MDR/ katanin p80 (WD40-containing) subunit B Transition Protein 2 ESTs ESTs TNF receptor-associated factor 1 KIAA1075 protein NAD(P)H menadione oxidoreductase 2; diox ESTs phospholnositide-3-kinase; catalytic; de calmodulin-like 3 tryptase; alpha ESTs matrix metalloproteinase 1 (interstitial Zinc Finger Protein (Gb:M88357) H.saplens mRNA for Ptg-11 protein EST ym30g04.r1 Scares infant brain 1NIB Homo	3.09 3.08 3.08 3.07 3.06 3.05 3.04 3.04 3.04 3.04 3.03 3.03 3.03 3.03	

150

102958	X15675	Hs.93174	Human endogenous retrovirus pHE.1 (ERV9)	2.97	
	AA400138		ESTs	2.97	
	T12559 AA253458	Hs.221382		2.96	
	AA084394		postmeiotic segregation increased 2-like zn05g10.s1 Stratagene hNT neuron (#93723	2.98 2.98	
111642	R16153	Hs.128740	ESTs, Highly similar to DNb-5 (H-saptens	295	
	HG4638-F	IT5050	Spliceosomal Protein Sap 49	2.95	
12937(	AA287879	Hs.110796	ESTs; Moderately similar to GTP-binding	2.94	
	C02386 M96233	Hs.107139 Hs.82891		2.94	
	N29724	113.02031	gamma2-adaptin	2.94 2.93	
	Z19585	Hs.75774	thrombospondin 4	2.93	
107882	AA025630	Hs.17801	ESTs; Moderately similar to serine/proli	2.93	
	T99639 H30258	Hs.91142	Kil-type splicing regulatory protein (FUS	2.92	
	AA082546	Hs.48518	collagen; type IX; alpha 2 ESTs	2.92 2.92	
127347	AA428350		ESTs	2.92	
	AA429807		ESTs .	2.91	
	AA135492 S72043	Hs.73133	ESTs, Highly similar to peroxisomal shor	2.91	
	R22035	Hs.23331	metallothionein 3 (growth inhibitory fac ESTs	2.91 2.91	
	F12681	Hs.205300		2.9	
	U49260	Hs.3828	mevalonate (diphospho) decarboxylase	2.9	
	C21431 AA113287	Hs.99486 Hs.65905	ESTs; Wealdy similar to aratar1 [H.sapie	2.9	
	U20230	ns.00300	ESTs; Weakly similar to PTB-ASSOCIATED : Human guanyi cyclase C gene, partial cds	2.89	
	AA431787	Hs.98762	EST	2.89	
	U06088	Hs.159479	galactosamine (N-acetyl)-6-suifate suifa	2.89	
	AA410645 T15817			2.88	
	N73717	Hs.161526	nitric oxide synthase 2A (Inducible; hep EST	2.88 2.88	
	AA369807			2.88	
	R74309		small EDRK-rich factor 2	2.87	
	U57971 H30751	Hs.103124	ATPase; Ca++ transporting; plasma membra		
	HG3731-H	Hs.182859 T4001	immunoglobulin Heavy Chain, Vdjrc Regions	2.87 (Ch-1 23566)	2,87
	M13299		blue cone pigment	2.86	2,01
	M21574	Hs.74615	platelet-derived growth factor receptor;	2.86	
	W37833	Hs.55563	ESTS	2.86	
	AA190515 X53742	Hs.79732	zp85d12.r1 Stratagene HeLa cell s3 93721 fibulin 1	2.86 2.86	
	Al339609		potassium voltage-gated channet; isk-rei	2.86	
	AA045978	Hs.173611	NADH dehydrogenase (ubiquinone) Fe-S pro		
	AA620782 N47317	Hs.23247 Hs.141858	ESTS ECT-	2.85	
	F04143		Homo sapiens clone 23856 unknown mRNA;	2.85	2.85
135120	AA449841	Hs.108300	NOT3 (negative regulator of transcriptio	2.84	2.00
	U17977	11- 44407	HSU17977 Humn fibroblast cDNA H sapiens		
	AA401401 X74795	Hs.1112/ Hs.77171	PET112 (yeast homolog)-like minichromosome maintenance deficient (S.	2.84 2.84	
	W38001	18877171	Accession not listed in Genbank	2.83	
	HG2228-HT		Crystallin, Beta B	2.83	
	AA236476 AI468598	Hs.22791	ESTs; Weakly similar to transmembrane pr ESTs	2.83	
	AA029073	Hs.105685		2.83 2.83	
	W38041			2.82	
	N31224			2.82	
	R15866 N59287			2.82	
	L40387			2.82 2.81	
	U33054			2.81	
	H41281	Hs.107619		2.81	
	U32581 N66396			2.81 2.81	
				2.81	
	Al270093	Hs.234642		2.81	
106492	AA451898	Hs.7922	ESTs; Weakly similar to contains similar		
132881	TR614R	Hs.58875		2.8	
	AA133778			2.8 2.79	
104618	AA001611	Hs.186494	ESTs	2.79	
134137			KIAA0211 gene product	2.79	
133212	U82979 HG4460-HT	Hs.67846 2729	leukocyte ty-like receptor; subfamily B Immunoglobulin Heavy Chain, Vdjc Regions (G	2.78 264 22554)	270
	AA024622			6031.233554) 2.78	2.78
	N69507			2.78	

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120824 AA347548 Hs.96876 ESTs
100684 HG3107-HT3283
                              Plasma Membrane Calcium Pump Hpmca2a
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121789 AA423970 Hs.178111 ESTs
                                                                      2.78
101647 M59941
                   Hs.118200 colony stimulating factor 2 receptor; be
                                                                      2.78
113722 197957
                   Hs.202948 ESTs; Wealthy similar to alternatively sp
                                                                      2.77
115107 AA256371 Hs.186645 ESTs
                                                                      277
111464 R05518
                   Hs.19521 ESTs
                                                                      2.77
108446 AA079120
                              zm95e1.s1 Stratagene colon HT29 (#937221
                                                                      2.77
123921 AA621329 Hs.250671 Hu DNA seg frm clone 1163J1 on chr 22g13
                             prot (similar to mouse Ceisr1; rat MEGF
$100 calcium-binding protein; beta (neur
                                                                      277
134445 M59488
                   Hs.83384
                                                                      2.76
114132 Z38688
                   Hs.24192
                             ESTs
                                                                      2.76
120500 AA256430 Hs.132525 ESTs
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101860 M95610
                   Hs.37165 collagen; type IX; alpha 2
                                                                      2.76
134430 H52105
                   Hs.8309
                             KIAA0747 protein
                                                                      276
124152 H27216
                   Hs.107635 ESTs
                                                                      2.76
132268 AA058833 Hs.23445
                             ESTs; Wealthy smir to similar to M. muscu
                                                                      276
116257 AA481493 Hs.88537
                             ESTs
                                                                      2.76
102438 U46570
                  Hs.7733
                             tetratricopeptide repeat domain 1
                                                                      2.75
122393 AA446334 Hs.99064
                             ESTs
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107653 AA010210 Hs.47041 ESTs
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123674 AA609473 Hs.105187 ESTs; Moderately similar to kinesin like
                                                                      2.75
129858 T66906
                  Hs.12970 ESTs
                                                                      2.75
130117 U06641
                  Hs. 150207 UDP glycosyltransferase 2 family; polype
                                                                      2,75
133464 M13982
                  Hs.73917 interleukin 4
                                                                      2.75
127039 AA233366 Hs.256491 ESTs
                                                                      2,74
128318 AA418202 Hs.13810 ESTs
                                                                      2.74
123363 AA504818 Hs.171279 ESTs
                                                                      2.74
127654 AA649249 Hs.75640 natriuretic peptide precursor A
                                                                      274
132067 L20860 Hs. 178382 glycoprotein 1b (platelef); beta polypep
125664 AA948418 Hs. 25744 ESTs; Wealdy similar to Ydr412wp [S.cere
                                                                      2.74
                                                                      2.73
                                                                      2.73
132354 L05187
                  Hs.211913 small proline-rich protein 1A
101568 M33764
                  Hs.75212 omithine decarboxylase 1
                                                                      2.73
                  Hs. 159263 Homo saplens; alpha-2 (VI) collagen
101438 M20777
                                                                      273
116233 AA479082 Hs.61142 ESTs
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122194 AA435882 Hs.97531 ESTs
113995 W88466 Hs.22010 ESTs
                                                                      2.72
                                                                      2.72
124251 H68286
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120583 AA281304 Hs.78614 complement component 1; q subcomponent b 2.71
134958 U72507
                  Hs.234216 Human 40871 mRNA partial sequence
                                                                      2.71
124280 H85835
                  Hs. 100058 dihydropyrimidinase-like 4
                                                                      271
130113 M64673
                  Hs.1499
                             heat shock transcription factor 1
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106588 AA456612 Hs.25682
                             ESTs; Wealty smir to PHOSPHATIDYLETHANOL
132023 F01927
                   Hs.3743
                             ESTs; Wealty similar to proline-rich pro
                                                                      2.7
112284 R53558
                   Hs.26052 ESTs
                                                                      27
107897 AA026240 Hs.61387
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122610 AA453598 Hs.99336
                             ESTs
                                                                      2.7
                             ESTs
                  Hs.52302
119070 R27788
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103491 Y08836
                             Homo sapiens mRNA for HRX-like protein
                                                                      2.7
108225 AA058843 Hs.161620 EST
                                                                      2.7
105829 AA398290 Hs.21965 ESTs
                                                                      2 69
127749 Al251757 Hs.145234 ESTs
                                                                      2.69
128428 Al185718 Hs.143900 ESTs
                                                                      2.69
108409 AA075578
                             zm88h3.s1 Stratagene ovarian cancer (#93
                                                                      2.69
114739 AA134923 Hs. 103833 ESTs; Weakly similar to predicted using
                                                                      2.68
128821 D87002
                  Hs.135
                             multiple UniGene matches
                                                                      2.68
107412 W26105
                  Hs.8961
                             ESTs
                                                                     2.68
                   Hs. 194387 ESTs; Weakly similar to IIII ALU SUBFAMI
117012 H85893
                                                                     2.68
135262 AA416551 Hs.9732
                             ESTs
                                                                     2.68
105367 AA236397
                  Hs_20304
                            ESTs
                                                                     2.68
134771 L13939
                  Hs.89576
                             adaptor-related protein complex 1; beta
                                                                      2.68
                  Hs.25549
                             EST8
                                                                      2.68
105036 AA128617
                  Hs.186750 ESTs
125093 T92930
                                                                     2.68
119340 T61899
                  Hs.90677
                            ESTs; Highly similar to CGI-82 protein [
                                                                     267
                  Hs.53066
132603 H62900
                            hsp70-interacting protein
                                                                     2.67
113733 T98386
                  Hs.184548 ESTs
                                                                     2.67
123564 AA608902 Hs.112612 ESTs
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                            EST8
116059 AA454165 Hs.53455
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125803 R79373
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                            EST8
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123012 AA479962 Hs.139636 EST
                                                                     2.68
106080 AA418046 Hs.35124 ESTs
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                  Hs. 102267 lysyl oxidase
128809 T59668
                                                                     2.66
104354 H08988
                  Hs.113759 ESTs
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                  Hs.8032
                             ESTs
107068 AA609028
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101418 M17754
                  Hs.1276
                             BN51 (BHK21) temperature sensitivity com
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135157 AA460138 Hs.95582 SRY (sex-determining region Y)-box 20
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2.71

116880 H68380

Hs.144174 EST

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123312 AA496258 Hs.99801 ESTs
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 130034 000350
                    Hs.14454
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 103897 AA248870 Hs.55058
                               EST<sub>3</sub>
                                                                        2.65
 117771 N47961
                    Hs.46794
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 109980 H09529
                    Hs.98893
                               DKFZP586J0917 protein
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 121986 AA429653 Hs.98616
                              EST
                                                                        264
 114233 Z39652
                    Hs.27457
                              ESTs
                                                                        2.64
 129594 R70379
                    Hs.115396 Human germline IgD chain gene; C-region;
                                                                        2.63
 102319 U34587
                    Hs.66578
                              corticotropin releasing hormone receptor
                                                                        2.63
 111700 R22212
                    Hs.23361
                              ESTs
                                                                        2.63
 127365 AA001628 Hs.74335
                              heat shock 90kD protein 1; beta
                                                                        2.63
 104205 AA496240
                    Hs.17270
                              DKFZP434C211 protein
                                                                        263
 124559 NS6223
                    Hs. 135928 ESTs; Wealty similar to IIII ALU SUBFAMI
                                                                        263
 106351 AAA42772 Hs. 191987 ESTs; Weakly similar to IIII ALLI SUBFAMI
                                                                        263
 121903 AA427605 Hs.258742 myosin-binding protein C; cardiac
                                                                        2.62
 116442 AA620310 Hs.184343 ESTs; Wealthy similar to KIAA0585 protein
                                                                        2.62
 127041 F06090
                              HSCOWG031 normalized infant brain cDNA H 2.62
 132860 U93049
                    Hs.58435
                              FYN-binding protein (FYB-120/130)
                                                                       2.62
 131591 122454
                    Hs.180069 nuclear respiratory factor 1
                                                                        261
 118118 N56901
                    Hs.47995
                              ESTs
                                                                        2.61
 134809 X52611
                              transcription factor AP-2 alpha (activat
                    Hs.18387
                                                                        261
                    Hs.46472
 117706 N45091
                              ESTs
                                                                        2.61
 127488 AA312179 Hs.178617 ESTs; Wealthy similar to CGI-82 protein [
                                                                       261
 114891 AA235984 Hs.87469
                              ESTs
                                                                       2.6
 116426 AA609668 Hs.71657
                              ESTs
                                                                       26
 132589 AA432197 Hs.5260
                              ESTs; Weakly similar to CGI-08 protein (
                                                                       26
 128410 AA452788
                              zx39g11.r1 Soares_total_fetus_Nb2HF8_9w
                                                                       26
 106081 AA418394
                   Hs.25354
                              EST<sub>S</sub>
                                                                       26
 129919 R02003
                    Hs.191208 ESTs; Weakly similar to weak similarity
                                                                       2.59
 124672 R00307
                    Hs.188504 ESTs
 122758 AA459013 Hs.99742 X-ray repair complementing defective rep
                                                                       2.59
 125656 AA040118 Hs.78687
                              neutral sphingomyelinase (N-SMase) activ
 130052 J00220
                    Hs.145288 Human by active epsilon1 5 UT; V-D-J re
                                                                       2.59
                    Hs.250826 macrophage stimulating; pseudogene 9
 134878 U28055
                                                                       2.59
 131908 L05624
                    Hs.3448
                              mitogen-activated protein kinase kinase
                                                                       2.59
126470 AA843339
                   Hs.193168 ESTs; Wealty similar to CGI-52 protein [
                                                                       2.59
132353 M31651
                   Hs.46319 sex hormone-binding globulin
                                                                       2.58
                   Hs.142525 ESTs
119588 W44559
                   Hs.316 DEAD/H (Asp-Glu-Ala-Asp/His) box polypep
Hs.143212 cystafin F (leukocystafin)
131757 D17532
                                                                       2.58
118114 N56875
                                                                       2.58
128200 Al279952
                   Hs.158037 ESTs; Weakly similar to transcription re
                                                                       2.58
131208
        C14586
                   Hs.24220
                             Homo sapiens mRNA; cDNA DKFZp566M051 (fr
124721 R11131
                   Hs.154966 ESTs
                                                                       2.57
108706 AA121820
                              Homo saplens mRNA for KIAAD842 protein;
                                                                       257
118831 N79592
                   Hs.50838
                              ESTs
                                                                       2.57
115708 AA412212 Hs.44033
                              ESTs
                                                                       2.57
107233 D59322
                   Hs.22595
                              ESTs
                                                                       2.57
129559 AA234945 Hs.11360
                              ESTs
                                                                       2.57
126953 AA743849 Hs.127286
                             ESTs
                                                                       2.56
108165 AA055221
                   Hs.63168 ESTs
                                                                       2.56
104069 AA401547
                   Hs.172694 ESTs
                                                                       2.56
112146 R46512
                   Hs.25374 ESTs
                                                                       258
108384 AA074891 Hs.124917 ESTs; Highly similar to KIAA0838 protein
                                                                       2.56
131779 R49047
                   Hs.179779 ribosomal protein L37
                                                                       2.56
111829 R36070
                   Hs.25079 EST
                                                                       2.55
103424 X97267
                   Hs.155975 protein tyrosine phosphatase; receptor t
                                                                       2.55
100133 D13118
                   Hs.80986 ATP synthase; H+ transporting; mitochond
                                                                      2.55
130208 AA620556
                   Hs.15250
                             peroxisomal D3:D2-encyl-CoA isomerase
                                                                      2.55
124649 N92593
                   Hs.102907 ESTs
                                                                      2.55
                   Hs.206713 UDP-GatbetaGlcNAc beta 1;4- galactosylt
106511 AA452865
                                                                      255
128467 AA176446 Hs.180428 ESTs; Weakly similar to hypothetical 43.
                                                                      2.55
113524 T90072
                   Hs.15060 ESTs
                                                                      2.55
107821 AA020991
                   Hs.172856 ESTs
                                                                      2.55
111900 R39044
                  · Hs.25318 Homo saplens clone 25194 mRNA sequence
109908 H05255
                   Hs.203237 EST
                                                                      2.54
132069 D87454
                   Hs.192966 KIAA0265 protein
                                                                      2.54
130660 T95262
                   Hs.17538
                             ESTs
                                                                      2.54
112983 T23443
                   Hs.7111
125279 H08885 ytt8808.rt Soares infant brain 1NIB Homo
106415 AA447994 Hs.29188 ESTs
116741 H00268 Hs.181746 EST
103148 X66362
                             ESTs
                                                                      2.54
                                                                      2.54
                                                                      2.53
                                                                      2.53
103148 X66362
                   Hs.2994
                             PCTAIRE protein kinase 3
                                                                      2.53
                             ESTs
132336 AA342422 Hs.45073
                                                                      2.53
129484 R92488
                   Hs.111989 ESTs
                                                                      253
110169 H19696
                   Hs.31612 ESTs; Moderately similar to CAGH4 [H.sap
                                                                      2.53
```

2.58

```
133511 X04106
                                                                     2.53
                  Hs.74451 calpain; small polypeptide
                                                                     2.53
126037 M85772
                  Hs.6066
                             KIAA1112 protein
                                                                     253
132678 AA599876 Hs.5486
                             ESTs
128751 AA442274 Hs.183176 ESTs
                                                                     2.52
133664 X86693
                  Hs.75445 hevin
                                                                     2.52
126977 AA309665
                             EST180547 Jurkat T-cells V Homo saplens
                                                                     2.52
                                                                     2.52
120697 AA291522 Hs.97250 EST
128571 AA416619 Hs.101661 ESTs
                                                                     2.52
104422 H86858
                  Hs.132909 ESTs
                                                                     2.52
122372 AA446008 Hs.99044
                            EST
                                                                     2.52
                                                                     2.52
112154 R46769
                  Hs.25388
                            ESTs
                                                                     2.51
                  Hs.12701
126900 R16034
                             ESTs; Highly similar to plasmolipin [H.s
115000 AA251342 Hs.144584 ESTs
                                                                     2.51
                  Hs.171635 ESTs
                                                                     2.51
110632 H72344
129154 N23873
                  Hs.108969 mannosidase; alpha; class 2B; member 1
                                                                     2.51
107440 W28069
                                                                     2.51
                  Hs.251993 ESTs; Wealthy similar to similar to zinc.
105694 AA287109 Hs.37883 ESTs
                                                                     2.51
106249 AA430388
                 Hs.13144
                            ESTs; Weakly similar to ORF YGR038w [S.c
                                                                     2.51
134462 U11037
                  Hs.83620
                            sel-1 (suppressor of lin-12; C.elegans)-
                                                                     2.51
101800 M85276
                                                                     2.51
                  Hs.105806 granutystn
119884 W81606
                  Hs.58662
                            Homo saplens mRNA; cDNA DKFZp564G212 (fr
                                                                                     2.51
110289 H29829
                  Hs.31524
                            EST<sub>8</sub>
                                                                     2.51
                  Hs.154073 UDP-galactose transporter related
                                                                     2.51
125506 H54273
102954 X15393
                            motilin
                                                                     251
                  Hs.2813
                  Hs.130497 ESTs; Weakly similar to CHLORIDE CONDUCT
                                                                                     2.5
127851 Al469331
126179 Al191445
                  Hs.143855 ESTs; Highly similar to IROQUOIS-CLASS H 2.5
129443 W69967
                  Hs.111497 ESTs; Moderately similar to neuronal pro
                  Hs.99654 protein-O-mannosyltransferase 1
104480 N41486
115580 AA398695 Hs.144339 Hu DNA seg frm clone 495010 on chr 6q26-
                  Prot L37A) pseudogene; last exon of gene for a novel prot smir to worm E04F6.2; ESTs; STSs and GSSs
119595 W45031
                  Hs.55878
103336 X85785
                  Hs.183
                             Duffy blood group
                                                                     2.5
102792 U87964
                  Hs.227576 GTP binding protein 1
                                                                     2.49
                  Hs.250712 calcium channel; voltage-dependent; beta
129643 L27584
                                                                     2.49
134503 LI34880
                  Hs.84183
                             diplineria toxin resistance protein regrd
                                                                     2.49
                  Hs.42927
                                                                     2.49
117245 N20989
                             EST<sub>3</sub>
                  Hs.1063
                                                                     2.49
126888 H78745
                             small nuclear ribonucleoprotein polypept
135313 D63484
                  Hs.98508
                             KIAA0150 protein
                                                                     2.49
121186 AA400156
                 Hs.183294 ESTs
                                                                     2.49
130651 X04445
                  Hs.1734
                            inhibin; alpha
                                                                     2,49
134218 AA227480 Hs.80205
                            pim-2 oncogene
                                                                     2.49
                                                                                     2.49
104008 AA334630
                             EST38874 Embryo, 9 week Homo sapiens cDN
                             carnitine acetyltransferase
                                                                     2.49
129705 X78706
                  Hs.12068
                                                                     2.49
127900 Al143912
                 Hs.121824 ESTs
104609 R96417
                  Hs.107795 ESTs
                                                                     2.48
131628 U47292
                  Hs.2979
                             trefoil factor 2 (spasmolytic protein 1)
                                                                     2.48
                                                                     248
132184 U51003
                  Hs.419
                             distal·less homeo box 2
                             COP9 subunit 6 (MOV34 homotog; 34 kD)
130450 U70735
                  Hs.15591
                                                                     2.48
                  Hs.163271
                            Human alpha-1 Ig germline C-region membr
                                                                     2.48
101679 M62628
120858 AA350147
                  Hs.96940
                                                                     2.48
                            EST
101012 J04444
                  Hs.697
                                                                     2.48
                             cytochrome c-1
                  Hs.33026
                             ESTs; Weakly similar to similar to Enter
                                                                     248
110453 H52133
133771 M68891
                  Hs.760
                             GATA-binding protein 2
                                                                     248
102944 X14445
                  Hs.37092
                             fibroblast grath fctr 3 (murine mammary
                                                                     2.48
                                                                     2.48
113269 T65159
                  Hs.85044
                             EST3
107069 AA609045 Hs.11759
                             ESTs; Weakly similar to IIII ALU CLASS B
                                                                     2.48
100476 HG1019-HT1019
                                                                     2.47
                             Serine Kinase Psk-H1
106457 AA449718 Hs.27801
                            zinc finger protein 278
                                                                     2.47
105718 AA291629 Hs.74335
                            heat shock 90kD protein 1; beta
                                                                     2.47
104925 AA058683 Hs.5548
                             Homo saplens clone 23765 mRNA sequence 2.47
                  Hs.31588
                                                                     2,47
109913 H05527
                            ESTs
103412 X96698
                  Hs.42957
                                                                     2.47
                            methyltransferase like 1
                  Hs.226025 vacuolar protein sorting 45A (yeast homo
102326 U35246
                                                                     2.47
116813 H49911
                  Hs.93102 ESTs
                                                                     2.47
123690 AA609566 Hs.112723 EST
                                                                     2.47
124714 R09486
                  Hs.193118 ESTs
                                                                     2.47
126154 Al004105
                  Hs.14232
                            ESTs; Moderately similar to KIAA0563 pro
                                                                     2.47
118880 N90168
                  Hs.54593 ·
                            EST
                                                                     2.47
122274 AA437094 Hs.184456 ESTs; Wealthy similar to IIII ALU SUBFAMI
                                                                     2.46
                                                                     2.46
129600 N78980
                  Hs.11567
                             ESTs; Moderately similar to unknown [H.s.
                                                                                     2.46
121356 AA405437
                 Hs.93581
                             Homo sapiens mRNA; cDNA DKFZp586E171 (fr
109560 F01778
                  Hs.8154
                             ESTs
                                                                     2.46
                 Hs.31659
                                                                     2.46
123342 AA504336
                            thyroid hormone receptor-associated prot
128032 Al150084
                  Hs.126678 ESTs
                                                                     2.48
                                                                                     2.46
129101 H90310
                  Hs. 108665 ESTs; Wealty similar to CELL-CYCLE NUCLE
```

	M25753	Hs.23960		2.46	
	AA411008 D81932	Hs.98085		2.48	
		Hs.69517	HUM424C5B Hu fetal brain (TFujiwara) H s ESTs; Highly similar to differentially e	2.48 2.45	
123600	AA609106	i Hs.11264	ESTS	2.45	
134191	W28902	Hs.20594 Hs.7979	ESTs; Wealdy similar to misato (D.melano KIAA0736 gene product	2.45 2.45	
130446	X79510	Hs.155693	protein tyrosine phosphatase: non-recent	2.45	
	R88228 N89670	Hs.29595	JNA protein	2.45	
104232	AB002351	Hs.10587	EST's; Wealdy similar to Su(P) (D.melanog KIAA0353 protein	2.45 2.45	
122604	AA453489	Hs.99333	ESTs	2.45	
	AA285064 F03866	Hs.58090		2.45 2.44	
116267	AA485080	Hs.256539	ESTs	2.44	
114944 127629	AA243172 AA293279	Hs.87619	TED protein	244 244	
120350	AA211300	Hs.104166	ESTs	2.44	
103620	Z47087 Z11737	Hs.182643	transcription elongation factor B (SIII)	2.44	
	AA399226			2.44 2.43	
122812	AA461044	Hs.142980	EST	2.43	
133100	AA398926 T86931	Hs.251108 Hs.16295	Homo sapiens mRNA; chromosome 1 specii	ic 2.43 2.43	
100045	M11507		AFFX control: transferrin recentor	243	
128975	AA092129 AA011479	Hs.107538	ESTs; Moderately similar to /prediction	2.43	
	F20186	ns. 134/01	HSPD05873 HM3 Homo saplens cDNA clon	2.43 a 05	2.43
107337	T97111	Hs.191235	ESTs; Wealty similar to Ydr324cp [S.cere	2.43	270
	AA435750 AA004636			2.43 2.43	
119800	W73523	Hs.58314	ESTs	2.43	
104886	AA053348	Hs.144626	growth differentiation factor 11	2.42	
125933	A/40990U Al308037	Hs.84120	ESTs; Highly similar to WASP interacting ESTs; Weakly similar to nucleoporin p62	2.42 2.42	
121664	AA417291	Hs.97978	ESTs	2.42	
125450 114611	AA377194 AA081374	Hs.238909	ESTs; Wealty similar to POLYPOSIS LOCU DKFZP547E2110 protein	S 2.42 2.42	
111595	R11492	Hs.191225	ESTs	2.42	
	R19368			242	
103019	H93005 X53414	Hs.177311 Hs.144567	alanine-giyoxylate aminotransferase (oxa	2.42 2.42	
119076	R36634	Hs.235534	ESTs	2.42	
125975	AA234308 AA495891	Hs.152290	DKFZP434H204 protein ESTs; Highly similar to PACAP type-3/VIP	2.42 2.42	
106380	AA446188	Hs.16614	ESTS	2.41	•
	AA429652 AA416788			2.41	
	HG4490-H		Proline-Rich Protein Prb4, Allele	2.41 2.41	
	N48701	Hs.46523	EST	2.41	
	W79525 U48861	Hs.58586 Hs.54397	ests cholinergic receptor; nicotinic; beta po	2.41 2.41	
116152	AA460920	Hs.215683	ESTs: Moderately similar to IIII ALU SUR	2.41	
126741	AA522512 X92715	Hs.29759 Hs.3057	Homo saplens mRNA; cDNA DKFZp586L212 zinc finger protein 74 (Cos52)		241
124837	R55630	Hs.233602	KIAA0596 protein	241 241	
129322	AA437153	Hs.110407	ESTs; Wealty similar to coded for by C.	2.4	
	R43803	Hs.78110	core-binding factor, runt domain; aipha ESTs; Weakly similar to F17A9.2 (C.elega	2.4 2.4	
	Y00970	Hs.183088	acrosin	2.4	
118990 134897	N94447 R71427	Hs.55047 Hs.9081	EST phenylalanyl-IRNA synthetase beta-subuni	24 24	
	D45654	Hs.65582	DKFZP586C1324 protein	24	
104294			myeloid/lymphoid or mixed-lineage leukem	2.4	
117437	N74440 N27645	Hs.205264	es is yw5e3.s1 Weizmann Olfactory Epithelium H	2.4	
			3' similar to contains L1.13 L1 repetit	24	
111651 109583		Hs.20499 Hs.26135	ESTs ESTs	2.39 2.39	
125969	R94247	Hs.193879	ESTs	2.39	
			interleukin enhancer binding factor 1	2.39	
113708 133469		Hs.18065 Hs.170482	myosin; light polypeptide 5; regulatory	2.39 2.39	
118266	N62837	Hs.48647	immunoglobulin-like transcript 7	2.39	
	AA417248 AI422841	Hs.98212 Hs.180086	ESTS ESTS	2.39 2.39	
,				-47	

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123708 AA609648 Hs.207767 EST
                                                                    2.39
107875 AA025308 Hs.61182 ESTs
                                                                    2.39
111711 R22891
                                                                    2.39
                  Hs.7093
                            EST8
                            amytoid beta (A4) precursor protein-bind
                                                                    2.39
131405 U79255
                  Hs.26468
127454 AA502957 Hs.153590 ESTs
                                                                    2.39
132341 AA448419 Hs.45209
                                                                    2.38
                            ESTS
                                                                    2.38
133673 D87673
                  Hs.75486
                            heat shock transcription factor 4
                            ya94a02.s1 Stratagene placenta (#937225)
113213 T58607
                                                                    2.38
106230 AA429356 Hs.12047
                            ESTs
                                                                    2.38
116692 F09261
                  Hs.66103
                            ESTs
                                                                    2.38
126197 AA172284 Hs. 103657 ESTs; Wealthy similar to CH-TOG PROTEIN [ 2.38
115966 AA446866 Hs.71371
                            ESTs
                                                                    238
132636 U65785
                  Hs.5417
                            coygen regulated protein (150kD)
                                                                    2.38
                            EST
109965 H09077
                  Hs.30895
                                                                    2.38
130203 L14754
                  Hs.1521
                            immunoglobulin mu binding protein 2
                                                                    2.38
131332 R50487
                                                                    2.38
                  Hs 25717
                            FST<sub>9</sub>
119105 R42357
                  Hs.91453
                            ESTs
                                                                    2.37
129253 W69316
                  Hs. 109778 ESTs; Wealthy similar to similar to beta-
                                                                    237
113602 T92558
                  Hs.17036 ESTs
                                                                    2,37
118102 N55272
                  Hs.145798 ESTs
                                                                    2.37
                            Fibroblast Growth Factor Receptor K-Sam, Alt. Splice 3, K-Sam III
                                                                                              2.37
100734 HG3432-HT3620
                  Hs.251651 EST
111533 R08548
                                                                    2.37
130813 U12259
                            paired box gene 3 (Waardenburg syndrome
                  Hs.198
                                                                   2.37
119180 R80413
                  Hs.92520
                            ESTs
                                                                    237
109335 AA211443 Hs.86492 ESTs
                                                                    2.37
107386 U97698
                  Hs.159593 mucin 6; gastric
                                                                    2.36
122486 AA448328 Hs.115527 ESTs
                                                                    2.36
112997 T23548
                  Hs.167467 ESTs
                                                                    2.36
109674 F09051
                  Hs.21837 ESTs; Wealthy similar to KIAA0927 protein
                                                                    2.36
128868 AA423827 Hs.106730 hypothetical protein
                                                                    2 36
127027 R17261
                            yg12g07.r1 Soares infant brain 1NIB H sa
                                                                    2.36
123099 AA485931 Hs.79
                            aminoacytase 1
                                                                    2.36
115716 AA416767 Hs.43498
                            ESTs; Wealty similar to ORF YKL201c [S.c
                                                                    2.36
                            KIAA0229 protein
130830 D86982
                  Hs.20060
                                                                    2.36
                                                                    2.36
109051 AA159920 Hs.72322
                            ESTs
130181 R39552
                  Hs.151608 Homo saptens done 23622 mRNA sequence 2.36
131114 R46233
                  Hs.23107 ESTs
                                                                    2.36
123589 AA609047 Hs.188922 ESTs
                                                                    236
130872 U03891
                            phorbolin (similar to apolipoprotein B m
                                                                    2.36
131962 H78550
                  Hs.2780
                                                                    2.36
                            jun D proto-oncogene
                            neutrophil cytosolic factor 1 (47kD; chr
                                                                    2.36
130502 M55067
                  Hs.1583
                                                                    2.35
121785 AA423883 Hs.142442 ESTs
125405 T97171
                                                                    2,35
                  Hs.121570 ESTs
                                                                    2.35
103682 AA000993
                            ESTs
                  Hs.194816 stornatin-like protein 1
                                                                    2.35
125649 T77395
115452 AA285019 Hs.55263 ESTs; Highly similar to mitochondrial di
                                                                    2.35
129338 T56800
                  Hs.47274 Homo saplens mRNA; cDNA DKFZp664B176
                                                                    (fr
                                                                                    235
106105 AA421268 Hs.149443 putative turnor suppressor
                                                                     35
134770 R72079
                  Hs.89575 CD79B antigen (immunoglobulin-associated
                                                                    2.35
119422 T99496
                  Hs.229598 EST
                                                                    2.35
                  Hs.30345 EST
109869 H02849
                                                                    2.35
134314 AA263032 Hs.81634 ATP synthase; H+ transporting; mitochond
                                                                    2.35
114989 AA251097 Hs.189119 ESTs
                                                                    2.35
122619 AA453755 Hs.191515 ESTs
                                                                    2.35
133129 AA428580 Hs.65551 ESTs
                                                                    2.35
128465 AA416762 Hs.100221 nuclear receptor subfamily 1; group H; m
                                                                    2.35
115636 AA402715 Hs.58389 ESTs
                                                                    2.35
                                                                    2.34
130836 J05068
                  Hs.2012
                            transcobalamin I (vitamin B12 binding pr
                                                                    2.34
132385 Y10256
                  Hs.47007
                            serine/ihreonine protein-kinase
107776 AA018820 Hs.221147 ESTs
                                                                    2.34
                  Hs.13228 DRE-antagonist modulator, calsenilin
                                                                    2,34
109791 F10669
                  Hs.107197 ESTs
                                                                    2.34
124409 N33212
131068 AA397916 Hs.22595 ESTs
                                                                    2,34
121079 AA398719 Hs.14169
                            ESTs; Wealty similar to CREB-binding pro
                                                                    2.34
124662 N94340
                  Hs.171835 ESTs; Wealthy smir to PUT PRE-MRNA SPLICE
                                                                                    2.34
133820 M13686
                                                                    234
                  Hs.177582 surfactant; pulmonary-associated protein
129424 M55593
                  Hs.111301 matrix metalloproteinase 2 (gelatinase A.
                                                                    2.34
                                                                    2.34
109066 AA161377 Hs.72404 EST
                  Hs.181359 KIAA0151 gene product
                                                                    2.34
100339 D63485
                             Cpg-Enriched Dna, Clone E18
                                                                    2.34
100809 HG3991-HT4261
                                                                    2.33
120844 AA349417 Hs.96917
                            ESTs
                  Hs.221459 ESTs
                                                                    233
124927 R96146
                            Homo sapiens done 24940 mRNA sequence
                                                                    2.33
109779 F10527
                  Hs.3353
                  Hs.119251 ublquinol-cytochrome c reductase core pr
101171 L16842
                                                                    2.33
                  Hs.24048 ESTs; Wealty similar to FK506/rapamycin-
110805 N26904
                                                                    2.33
125440 AI090982 Hs.31895
                            ESTs
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2.31

	AC00006		cystic fibrosis transmemb conductance re	2.33
	9 M91368 9 AA778565	Hs.12976; Hs.14250;		233 233
102774	U83303	Hs.164021	small inducible cytokine subfamily B (CX	233
	N50809	Hs.15760	ESTs: Weakly similar to similar to Yeast	2.33
	N23889	Hs.238928 Hs.43466		2.33 2.32
118662	N70877	Hs.13055	ESTs	2.32
130354	AA416685	Hs.155001	UNC13 (C. elegans)-like	2.32
	AA477330 H90573	Hs.12293 Hs.102298	ESTs	2.32
	W02129	Hs.55242	EST	2.32 2.32
	Z40942	Hs.5383	ESTs	2.32
	AA854181 AA293334			2.32
	AA189116		ESTs; Highly similar to RAS-RELATED PRO ESTs	232
		Hs.169444		232
	A)478174 AA299789	Hs.144846 Hs.15277	ESTs ESTs	2.32
	AA262340		coronin; actin-binding protein; 28	231 231
	N38863		platelet activating factor acetylhydrola	2.31
	H13689 HG2147-H	Hs.92530	ESTS	2.31
	W88995		Much 3, Intestinal (GbtN55405) ESTs; Weakly similar to C15H9.5 [C.elega	231 231
	N64579		yz51d11.s1 Morton Fetal Cochlea H sapien	2.31
	D83847 W42944		elastase 3B	2.31
	R54798	Hs.171939 Hs.26239	ESTs	231 231
	AA136100	Hs.6673	frinucleotide repeat containing 15	2.31
	AA490900 N70970	Hs.58643 Hs.35006	ESTs; Highly similar to JAK3B [H.sapiens ESTs	2.31
	AJ000480		phosphoprotein regulated by mitogenic pa	2.31 2.31
	AA211717	Hs.86507	ESTs	2.31
	AA053022 AD000002	Hs.8312	ESTs Homo saplens DNA from chr 19p13.2 cosmic	2.31
125015	7000000	115.102.020	EKLF; GCDH; CRTC; and RAD23A genes; g	i ien
	AA453990		ESTs	2.31
	R43976 AA668123	Hs.236310 Hs.134170		2.31
	AA057620	Hs.30807	ESTs; Highly similar to dJ18601.1 [H.sap	2.31 2.31
	AA417373	Hs.15898	ESTs	2.31
	AA478487 AA028159	Hs.47234	ESTs .	2.31 2.3
	AA158386	Hs.186476		23
	AA291644	Hs.36793	ESTs	2.3
	AA418399 R27619	Hs.10351 Hs.231046	KIAA0308 protein	2.3 2.3
	U72515	Hs.189583	putative protein similar to nessy (Droso	23
	X98801	Hs.74617	dynactin 1 (p150; Glued (Drosophila) hom	2.3
114004	AA076128		zm18g4.s1 Stratagene pancreas (#93728) H 3' similar to SW:RS1A_HUMAN P3927 4S R	123
		Hs.202588	ESTs	2.3
	AA398276		ESTs	2.3
120401	W72920 AA234309	Hs.58244 Hs.193011	ESTs	2.3 2.3
116290	AA488691	Hs.57969	phenylalanine-tRNA synthetase	23
	R44163	Hs.12457	Homo sapiens clone 23770 mRNA sequence	
132615	H66367	Hs.53358	loss of heterozygosity; 11; chromosomal ESTs; Wealtly similar to IIII ALU SUBFAMI	2.29 2.29
	AA429598	Hs.98587	ESTs	2.29
	L49169 AA313802	Hs.75678	FBJ murine osteosarcoma viral oncogene h	2.29
	N22565	Hs.43212	growth factor receptor-bound protein 2 ESTs	2.29 2.29
		Hs.103902	=	2.29
	T95766 R16100	Hs.189760 Hs.166476		2.29
	AA089853		STIP1 homology and U-Box containing prot	2.29 2.29
133838	M97798	Hs.180919	Inhibitor of DNA binding 2; dominant neg	2.29
	R36447 R01620		ESTs ESTs	2.29
		Hs.19198 Hs.112656		2.29 2.29
133560	AA256365	Hs.7486	protein expressed in thyroid	2.29
122896 113378	AA469952 T80627		ESTs; Weakly similar to dal2; len:343; C	2.29
		Hs.14757 Hs.139352	ESTs ESTs	2.29 2.29
120153			EST	2.29

157

PCT/US02/06001

	R93080	Hs.35035	ESTS	2.28	2.28
	AA044784 F10665	Hs.4105 Hs.25031	Homo saptens mRNA; cDNA DKFZp586A061 ESTs	2.28	2.20
	W04657	Hs.24248	ESTS	2.28	
	X13451	1000.12.10	Hu mRNA for lymphocyte lineage-rstroted	2.28	
	AA322034		EST24690 Cerebellum II Homo saptens cDN/		
126363	N94706		Human Chromosome 16 BAC clone CIT987S		2.28
	M19508		Human myeloperoxidase gene, exons 1-4	2.28	
	AA386264	Hs.5337	Isocitrate dehydrogenase 2 (NADP+); mito	2.28	
	AA258813		ESTs	2.28	
	AA548559 AA281936	Hs.103853	ESTs	2.28 2.28	
	AA079667	115.003 (4	zm93d1.s1 Stratagene ovarlan cncr (#9372	2.28	
	AA291066	Hs. 105099		2.28	
	AA704771			2.28	
	T02963	Hs.4454	ESTs	2.28	
121817	AA424826	Hs.98475	EST	2.28	
	AA026150		ESTs	2.28	
	Z38223	Hs.23735	potassium voltage gated channel; subfami	2.28	
	M72885	Hs.95910	Human GOS2 protein gene; complete cds	2.27	
	X69819	Hs.99995 Hs.194347	intercellular adhesion molecule 3	2.27 2.27	
	W72720		secretory carrier membrane protein 2	2.27	
	M29877	Hs.576	fucosidase: alpha-L-1: tissue	2.27	
	AA436889		ESTs	2.27	
	H96850	Hs.89674	dolichyt-diphosphooligosaccharide-protei	2.27	
	X54871	Hs.77690	RAB5B; member RAS oncogene family	2.27	
126479	T78141		ESTs	2 <i>.2</i> 7	
	R71976		ESTs; Wealdy similar to IIII ALU SUBFAMI	2.27	
	AA053586			2.27	
	N53965	Hs.256327		2.27	•
	AA359719			2.27	
	AA025061		DKFZP586K0919 protein ESTs	2.26 2.26	
	AA437133		ESTs .	2.26	
	AA400378		ESTs	2.26	
	AA134824		ESTs .	2.26	
	N68163	Hs.49455	EST	2.26	
110509	H56493	Hs.61960	ESTs; Moderately similar to HYPOTHETICAL	2.26	
	Z38280	Hs.26971	Human Chromosome 16 BAC clone CIT987SI		2.26
103225		Hs.2750	mannosidase; alpha; class 1A; member 1	2.26	
	AA746654		proliferation-associated 2G4; 38kD	2.26	
	R25069 U09368	Hs.175681	zinc finger protein 140 (clone pHZ-39)	2.26 2.26	
	AA290743		ESTs	2.26	
	H00440		ESTs; Weakly similar to signal transduce	2.26	
	X80915	Hs.1573	growth differentiation factor 5 (cartila	2.26	
	AA197273			2.26	
128555	U62739	Hs.101408	branched chain aminotransferase 2; milioc	2.26	
			ceruloplasmin (ferroxidase)	2.26	
			ESTs, Wealty similar to stac [H.saplens]	2.26	
	H05084	Hs.28077	ESTs; Highly similar to GDP-mannose pyro	2.26	
	U35234 AA465158		protein tyrosine phosphatase; receptor t Spi-B transcription factor (Spi-1/PU.1 r	2.26 2.26	
	Z41124	Hs.66045	EST	2.26	
	AI001138		N-acylaminoacyl-peptide hydrotase	2.26	
	AA421047		ESTs	2.26	
107817	AA020781		ESTS	2.25	
101069	L02648	Hs.84232	transcobalamin II; macrocytic anemia	2.25	
	X58399	Hs.81221	Human L2-9 transcript of unrearranged Im	2.25	
	N52585	Hs.47517	EST9	2.25	
	AA436011		ESTs	2.25	
	AA179392 K03207		EST proline-rich protein BstNi subfamily 4	2.25 2.25	
	S71824		neural cell adhesion molecule 1	2.25	
	U74667	Hs.6364	Tat interactive protein (60kD)	2.25	
	W86753	Hs.82407	ESTs	2.25	
	Al298835		ESTs; Weakly similar to transcription re	2.25	
	L77564 .		serine/threonine kinase 22B (spermiogene	2.25	
	AA136042			2.25	
	AA283893	Hs.203866		2.25	
117058					
44	H90322	Hs.41387		2.25	
115598	H90322 AA400129	Hs.65735	ESTs	2.25	
115598 121267	H90322 AA400129 AA401397	Hs.65735 Hs.165296	ESTs ESTs; Highly similar to kallikrein-like	2.25 2.25	
115598 121267 104778	H90322 AA400129 AA401397	Hs.65735 Hs.165296	ESTs ESTs; Highly similar to kallikrein-like Homo saplens clone 24804 mRNA sequence	2.25 2.25	

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102795 U88667
                   Hs.198396 ATP-binding casseller sub-family A (ABC1
                                                                     2.24
 118643 N70324
                   Hs.49840 ESTs
                                                                     224
 103304 X82240
                   Hs.2484
                             T-cell teukemia/lymphoma 1A
                                                                     224
 134814 Z48475
                   Hs.89771
                             glucolánase (hexolánase 4) regulatory pr
                                                                     224
 125912 AA171719 Hs.5233
                             eukaryotic translation initiation factor
                                                                     2.24
 134365 R32377
                   Hs.82240 syntaxin 3A
                                                                     2.24
 117224 N20300
                   Hs.218707 ESTs
                                                                     2.24
 107169 AA521601 Hs.184446 ESTs; Wealthy similar to small GTP-bindin
                                                                     2.24
 133948 M59916
                   Hs.77813 sphingomyelin phosphodiasterase 1; acid
                                                                     2.24
 101426 M19483
                   Hs.25
                             ATP synthase; H+ transporting; mitochond
                                                                     2.24
 119922 W86196
                   Hs.177384 ESTs
                                                                     2.24
 123361 AA504810 Hs.139649 EST
                                                                     2.24
 123915 AA621298 Hs.112967 ESTs
                                                                    2.24
 123540 AA608792 Hs.112591 EST
                                                                    2.24
 124978 T40560
                   Hs.221759 ESTs
                                                                     2.24
 102354 U38268
                             Human cytochrome b pseudogene, partial c
                                                                    2.24
 124198 H53099
                  Hs.198271 NADH dehydrogenase (ublquinone) 1 alpha
 102160 U18235
                  Hs.121561 ATP-binding cassette; sub-family A (ABC1
                                                                    2.24
                   Hs.100007 regulatory factor X; 2 (influences HLA c
 107520 X76091
                                                                    2.24
 131589 U52100
                  Hs.29191 epithetial membrane protein 2
                                                                    2.24
126633 AA206993 Hs.154145 guaraine mucl binding protein (G protein)
                                                                    2.23
130887 AA258379 Hs.155986 angiotensin receptor-like 2
                                                                    2.23
119894 W84670
                  Hs.58518 EST
                                                                    2.23
124544 N63837
                  Hs.40500
                             similar to S. cerevisiae RER1
103104 X61587
                  Hs.75082
                             ras homolog gene family, member G (rho G
                                                                    2.23
110119 H17306
                  Hs.177229
                             ESTs
                                                                    2.23
131411 AA464043 Hs.26506 ESTs; Wealdy similar to NY-REN-45 antige
                                                                    2 23
                             meiofic recombination (S. cerevisiae) 11
102346 U37359
                  Hs.227297
                                                                    2.23
106003 AA411167 Hs.8734
                             ESTs; Moderately similar to IIII ALU CLA
                                                                    2.23
122564 AA452251 Hs.98669
                            ESTs
                                                                    2.23
133688 U42031
                             FK506-binding protein 5
                  Hs.7557
                                                                    2.23
132096 AA131410 Hs.3964
                             Homo sapiens clone 24877 mRNA sequence 2.23
110038 H11746
                  Hs.31097
                            ESTs
123788 AA620293 Hs.112853 ESTs
                                                                    2.23
135070 X99350
                  Hs.93974 forkhead box J1
                                                                    223
104908 AA055841 Hs.154396 ESTs
                                                                    2.22
128674 AA025001 Hs.169452 ESTs
                                                                    2.22
100810 HG3992-HT4262
                             Cpg-Enriched Dna, Clone E35
                 Hs.59478 EST
120065 W93579
                                                                    2.22
122775 AA459692 Hs.112143 ESTs
                                                                    2.22
125443 H71482
                  Hs.177592 ribosomal protein; large; P1
                                                                    2.22
118617 N69666
                  Hs.183413 ESTs; Moderately similar to IIII ALU SUB
                                                                    2.22
                 Hs.166664 ESTs
128001 Al167814
                                                                    2.22
128160 Al279080 Hs.149971 ESTs; Moderately similar to Itil ALU CLA
                                                                   2.22
106608 AA458644 Hs.27115
                            ESTs
                                                                   2.22
103485 Y08409
                  Hs.248415 thyroid harmone responsive SPOT14 (rat)
                                                                   2.22
135008 AA173423 Hs.92918 ESTs; Wealthy stmillar to R07G3.8 [C.elega
                                                                   2.22
110122 H17333
                  Hs.159837 EST
                                                                   2.22
128397 Al393421
                  Hs.14032 ESTs
110231 H24359
                  Hs.28733
                            ESTS
                                                                   222
123188 AA489092 Hs.177726 ESTs
                                                                   2.22
131903 AA481723 Hs.3436
                            deleted in oral cancer (mouse; homolog)
                                                                   2.22
122649 AA454616 Hs.90336
                            ATPase; H+ transporting; lysosomal (vacu
                                                                   2.22
133090 AA448228
                 Hs.6468
                            ESTs
                                                                   2.22
108002 AA037664
                 Hs.55067
                            ESTs; Wealty similar to T07F12.1 gene pr
                                                                   2.22
133120 X64559
                  Hs.65424
                            tetranectin (plasminogen-binding protein
                                                                   2.21
114263 Z40073
                  Hs.6045
                            ESTs
                                                                   2.21
125518 R20148
                  Hs.193851 ESTs
                                                                   2.21
128613 U78551
                  Hs.102482 Homo sapiens galibladder mucin MUC5B mRN
102773 U83192
                  Hs.23731 discs; large (Drosophila) homolog 4
                                                                   2.21
       W38049
119526
                            Accession not listed in Genbank
                                                                   2.21
126844 AA299325
                            EST11903 Uterus tumor I Homo saptens cDN 2.21
105860 AA399251
                 Hs.180933 ESTs; Weakly similar to methyl-CpG bindl
                                                                   2.21
126957 AA733145
                 Hs.194560 ESTs
                                                                   2.21
108959 AA150107 Hs.81810 ESTs
                                                                   22
131663 AA423926 Hs.30318
                            ESTs
                                                                   22
127468 H02941
                 Hs.8888
                            ESTs
                                                                   22
104483 N42776
                  Hs.146233 ESTs
                                                                   22
123848 AA620773
                 Hs.221996 ESTs
101623 M55905
                  Hs.75342
                           malic enzyme 2; NAD(+)-dependent; mitoch
120872 AA357993
                 Hs.96996
                            ESTs
135033 AA173241
                 Hs.93454
                            ESTs
122286 AA437259
                 Hs.104944 EST
                                                                   2.2
114862 AA235174 Hs.50250 ESTs
                                                                   22
100255 D38047
                 Hs.78466 proteasome (prosome; macropain) 26S subu 2.2
103063 X58234
```

2.21

Hs.123178 translocase of inner mitochondrial membr

400				
132777	AA457129	Hs.56663	ESTS	2.2
	AA558980	Hs.6455 Hs.191750	RuvB (E coli homolog)-like 2	2.2 2.2
	AA075642		deleted in malignant brain tumors 1	2.2
	AA293435	Hs.97277	ESTs	22
102675			Human B-cell receptor associated protein	22
128551		Hs.237323	N-acetylglucosamine-phosphate mutase; DK	2.2
112020	R43001	Hs.22298	EST	2.2
123625	AA609216	Hs.112666	EST	2.2
	AA194266	Hs.178393	ESTs	2.2
	AA431992	Hs.104920		2.19
	M85220		Accession not listed in Genbank	2.19
	R07444	Hs.163118		2.19
	D63482	Hs.57734	KIAA0148 gene product	2.19
_	HG2147-HT AA482077	Hs.33713	Mucin 3, Intestinal (Gb:M55405) ESTs; Weakly similar to hypothetical pro	2.19 2.19
	AA076145	Hs.61053	ESTs	2.19
	AA127515	Hs.71787	ESTs; Highly similar to 30S ribosomal pr	2.19
120164			FAT tumor suppressor (Drosophila) homolo	2.19
135395		Hs.99899	tumor necrosis factor (ligand) superfami	2.19
	M69013	Hs.1686	guanine nucleotide binding protein (G pr	2.19
–	AA400013		EST	2.18
	AA235123		ESTS	2.18
	AA349662	Hs.174248		2.18
	AA398736 AA621624	Hs.97653 Hs.28088	EST Homo sapiens clone 24515 mRNA sequence	2.18
	D31446	Hs.10488	Breakpoint cluster region protein; uteri	218
	D13897	Hs.169249		2.18
	AA323787	Hs.4770	KIAA1068 protein	2.18
	AA112274		zm27g6.s1 Stratagene pancreas (#93728) H	
			element contains element LTR8 repetitiv	2.18
127008	AA223879		zr10g05.r1 Stratagene NT2 neuronal precu	2.18
	H42896	Hs.29438	ESTs	2.18
119354		Hs.100651	golgi SNAP receptor complex member 2	2.18
	M31627		X-box binding protein 1	2.18
	AA161085	Hs.15871	ESTs; Weakly similar to acid phosphatase ESTs; Weakly similar to T27A1.5 [C.elega	2.18 2.18
	H08077 H19312	Hs.28096	ESTS Weakly Shillian to 12/A12 [C.elegal	2.18
	X82224	Hs.46634	cysteine conjugate-beta lyase; cytoplasm	2.18
	H45538		metastasis associated 1	2.17
	W57698	Hs.8888	ESTs	2.17
106376	AA444004	Hs.6084	ESTs	2.17
113755	T99075	Hs.18570	ESTs	2.17
	X91817		transketolase-like 1	2.17
	R93186	Hs.84298	CD74 antigen (invar polypept of maj hist	2.17
	AA236365	Hs.55609	3-phosphoglycerate dehydrogenase ESTs; Wealdy similar to ISOLEUCYL-TRNA S	2.17
	AA297739 R53940	Hs.26016	ESTS, Westly Similar & ROCECOTE-TRIVES	2.17
	H83353	1520010	w82f02.r1 Soares melanocyte 2NbHM Homo	
	AA412712	Hs.119325	Huntingtin-Interacting protein A	2.17
	N67900	Hs.118446		2.16
132327	AA203285	Hs.44892	ESTs; Weakly similar to dJ733D15.1 [H.sa	2.16
	HG2239-H		Potassium Channel Protein (Gb:Z11585)	2.16
	AA022622	Hs.13543	ESTs; Weakly similar to hypothetical pro	2.16
135317	X86012	Hs.98602	Human DNA sequence from intron 22 of the	2.16
44/072	AA250845	He 87769	9.5kb repeated region; int22h-1; involv ESTs	2.16
107550	AA001504	Hs.59860	ESTs	2.16
	N53787	Hs.191117		2.16
	L34060	Hs.79133	cadherin 8	2.16
110697	H93721	Hs.20798	ESTs	2.16
126843	AA450166	Hs.22641	ESTs; Moderately similar to predicted pr	2.18
	AA063616		ESTs	2.16
	T66935	Hs.104859		2.16
111639	R16101	Hs.140834		2.15 2.15
		Hs.2533	DKFZP564A063 protein aldehyde dehydrogenase 9 (namma-aminobu	
124907	U34252 AA287623		GTPase; human homolog of E. coll essenti	2.15
121528	AA412253	Hs.238909	ESTs; Weakly similar to POLYPOSIS LOCUS	
122806	AA460707	Hs.106397	EST8	2.15
125727	H00958	Hs.181641	ESTs	2.15
133279	AA069571		Homo sapiens done 24616 mRNA sequence	
103219	X74570	Hs.75268	sialyitransferase 4C (beta-galactosidase	2.15
120881	AA362144	Hs.104601		2.15
134060	D42039	Hs.78871	KIAA0081 protein	2.15
106598	AA457140	HS.11411	DKFZP566O084 protein	2.15

2.14

125576	R66208		yi30h03.r1 Soares placenta Nb2HP H sapia	
40000		11.405004	contains Atu repetitive elementoontain	2.15
1/20/2/	M25629	MS.135084	cystatin C (amyloid angiopathy and cereb	2.15
	AA417181		kalibrein 1; renal/pancreas/salivary	215 214
100627			Serine/Threonine Kinase (Gb:Z25424)	2.14
	AA418671	Hs.104807	ESTS	214
106809	AA479704	Hs.220324	Humin DNA seq frm clone 283E3 on chr 1p36 Female Reproductive tract MIFR1; -2: MM	2.14
129525	F03873	Hs.112306	Homo sapiens clone 24955 mRNA sequence	
	HG1057-H	T1067	Much (Gb:M22406)	2.14
	N69020	Hs.207689		2.14
	W94427 AA478207	Hs.3807	ESTs; Wealty similar to PHOSPHOLEMIMAN	
100534			ESTs; Moderately similar to sex-determin Tubulin, Beta 2	2,14 2,14
105757			ESTS	2.14
	F03192	Hs.26789	ESTs; Weakly similar to dJ162H14.1 [H.sa	2.14
	AA412448			2.14
	T98291	Hs.102484	glutathione S-transferase A3	2.14
1202/4	AA177051		nc02a02.s1 NCL_CGAP_Pr3 Homo saptens or repetitive element; contains element LTR	
132933	AA598702	Hs.6101	bone morphogenetic protein 6	2.14 2.14
133405		Hs.73031	proline-rich protein BstNl subfamily 3	2.14
119811	W73922	Hs.49047	ESTs	2.14
	AA457735	Hs.850	IMP (inosine monophosphate) dehydrogenas	
	AA157799 M15881	Hs.6980 Hs.1137	aldo-keto reductase family 7; member A2	2.14
	AA397901	Hs.55993	uromodulin (uromucoid; Tamm-Horsfall gly ESTs	2.14 2.13
	AA424142	Hs.39384	putative secreted ligand homologous to f	2.13
	AA489228	Hs.136956		2.13
116875	H67749	Hs.161022		2.13
	D60607 R44839	Hs.34931 Hs.8526	EST	2.13
	183739	Hs.186512	i-beta-1;3-N-acetylgiucosaminytiransfera	2.13 2.13
	AA258843			213
119965	W87738	Hs.59039	EST	2.13
	AA101601		herpesvirus entry mediator B (pollovirus	2.13
107347	U43628 C14265	Hs.66450	mucosal vascular addressin cell adhesion ESTs	2.13
	HG2239-H		Potassium Channel Protein (Gb:Z11585)	2.13 2.13
110441		Hs.19845	ESTs; Highly similar to protein phosphat	2.13
101035		Hs.73858	carboxypeptidase N; polypeptide 2; 83kD	2.13
	AA047297 L34820		ESTs; Moderately similar to CDO [H.sapie	2.13
	AA43D466	Hs.5299 Hs.28890	aldehyda dehydrogenase 5 family; member ESTs	2.13 2.13
113569		Hs.162070		2.13
122911	AA470087	Hs.239726	ESTs	2.13
	W28988	Hs.250746		2.12
	R35661 U53442	Hs.25006 Hs.57732	EST	2.12
110244	H26742	Hs.25367	mitogen-activated protein kinase 11 ESTs; Weakly similar to ALR (H.saplens)	2.12 2.12
	H85347	Hs.107164	spectrin; beta; non-erythrocytic 1	2.12
	M10901	Hs.75772	nuclear receptor subfamily 3; group C; m	2.12
	AA448211		ESTs	2.12
	L37360 W86760	Hs.37054 Hs.220682	ephrin-A3 ESTe	2.12 2.12
	X92972		protein phosphatase 6; catalytic subunit	2.12
	AA443676			212
	U20285		G protein pathway suppressor 1	2.12
	AA018541 R42333			2.12
	N39596	Hs.20893 Hs.182584		2.12 2.12
	D50495			2.12
103084	X59932	Hs.77793	c-src tyrosine kinase	2.11
	AA255903			2.11
	AA416543 Al349351			211
	AA400273			2.11 2.11
112721	R91484	Hs.30853		2.11
113253	T64207	Hs.55296	HLA-B associated transcript-1	2.11
	AA348887			2.11
114122 112635				2.11
103785	AA095600			2.11 2.11
128260	AA331445		EST35277 Embryo, 8 week I Homo sapiens c	
	AA479155	Hs.103364	ESTs	211

110374	H42983	Hs.227263	ESTs	211	
116595	D60625	Hs.177656	calmodulin 1 (phosphorylase kinase; delt	211 .	
126117	H78617		yu26a08.r1 Soares fetal liver spleen 1NF	211	
116610	D80448	Hs.45177	ESTs	2.11	
	R01248	Hs.19165	ESTs	2.11	
	AA463929	Hs.28701	ESTs	2.11	
	Z40121	Hs.65870	ESTs; Weakly similar to Pro-Pol-dUTPase	21	
	AA147218		ESTs	21	
	AA115253	Hs.28805	ESTs	2.1	
	U54602	Hs.2785	keratin 17	21	
	H10060	Hs.101687		21	
	Z69881	Hs.5541	ATPase; Ca++ transporting; ubiquitous	21	
	AA428559			21	
			DKFZP547E1010 protein	21	
		Hs.104964		2.1	•
	H72014		ESTs; Wealthy similar to SYNAPTOTAGMIN I		
	T54613	Hs.9761	EST	21	
		Hs.87150	Human clone A9A2BR11 (CAC)n/(GTG)n rep		2.1
	U00951			2.1	41
	AA291293	Hs.25219	ESTS		
		Hs.26714	ESTS	21	
	Z40424	Hs.27728	ESTS	2.1	
	D80666	Hs.45203	ESTs	2.09	
	D21089	Hs.320	xeroderma pigmentosum; complementation g		
	W37694	Hs.55561	ESTs	2.09	
	S72493		keratin 16 (focal non-epidermolytic palm	2.09	
133912	X62744	Hs.77522	major histocompatibility complex; class	2.09	
129636	N34942	Hs.11782	ESTs	2.09	
106372	AA443941	Hs.4992	turnor suppressing subtransferable candid	2.09	
101885	M98539	Hs.8272	prostaglandin D2 synthase (21kD; brain)	2.09	
132749	AA235989	Hs.55967	short stature homeobox 2	2.09	
135042	X91348	Hs.93522	putative non-coding transcript (DiGeorge	2.09	
109404	AA224594		ESTs	2.09	
	L47738	Hs.80313	p53 inducible protein	2.09	
	D00596	Hs.82962	thymidylate synthetase	2.09	
	T17045		spastic ataxia of Charlevolx-Saguenay (s	2.09	
	R83903	Hs.78040	KDEL. (Lys-Asp-Glu-Leu) endoplasmic retic	2.09	
	AA247569		ESTs	2.09	
				2.09	
	R06273		ESTs; Moderately similar to IIII ALU SUB	2.08	
	A1247780	Hs.117036			
	AA772600		ESTs; Weakly similar to ATP-binding cass	2.08	
121315	AA402883	HS.02209	progestagen-associated endometrial prote	0.00	
440400		11. 00000	endometrial alpha-2-globulin; alpha ute	2.08	
	R46576	Hs.23239	ESTs	2.08	
	AA133584		JM1 protein	2.08	
	T51620	Hs.9326	EST	2.08	
	N75285	Hs.50593	ESTs; Moderately similar to cytoplasmic	2.08	
126748	AA249580		ESTs; Moderately similar to CDO [H.sapie -	2.08	
135160	U77643	Hs.95655	secreted and transmembrane 1	2.08	
107518	X60152		zinc finger protein 2	2.08	
126055	N28990		yx39g04.r1 Soares melanocyte 2NbHM Homo	)	2.08
116982	H81933	Hs.40317	ESTS	2.08	
101756	M77235	Hs.169331	sodium channel; voltage-gated; type V; a	2.08	
116935	H75763	Hs.53468	ESTs	2.08	
	N68408	Hs.194637	Homo saplens mRNA; cDNA DKFZp564D113	(fr	2.08
420912		Un 400404	dynamin 1	2.08	
123012	L07807	LI2" 100 10 I			
				2.08	
121946	AA429411	Hs.104888	ESTs .		
121946 133843	AA429411 AA489045	Hs.104888 Hs.76691	ESTs Homo saplens clone 25100 mRNA sequence;	2.08	
121946 133843 122170	AA429411 AA489045 AA435744	Hs.104888 Hs.76691 Hs.163913	ESTs . Homo saplens clone 25100 mRNA sequence; ESTs	2.08 2.08	
121946 133843 122170 122399	AA429411 AA489045 AA435744 AA446449	Hs.104888 Hs.76691 Hs.163913 Hs.231112	ESTs . Homo saplens done 25100 mRNA sequence; ESTs EST	2.08 2.08 2.08	
121946 133843 122170 122399 105775	AA429411 AA489045 AA435744 AA446449 AA348274	Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664	ESTs . Homo septems clone 25100 mRNA sequence; ESTs EST EST	2.08 2.08 2.08 2.08	
121946 133843 122170 122399 105775 123943	AA429411 AA489045 AA435744 AA446449 AA348274 AA621553	Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998	ESTs . Homo septems clone 25100 mRNA sequence; ESTs EST ESTs ESTs	2.08 2.08 2.08 2.08 2.08 2.08	
121946 133843 122170 122399 105775 123943 105771	AA429411 AA489045 AA435744 AA446449 AA348274 AA621553 AA347967	Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267	ESTs . Homo saplens clone 25100 mRNA sequence; ESTs EST ESTs ESTs ESTs neuroblastoma RAS viral (v-ras) oncocene	2.08 2.08 2.08 2.08 2.08 2.08 2.08	
121946 133843 122170 122399 105775 123943 105771 114454	AA429411 AA489045 AA435744 AA446449 AA348274 AA621553 AA347967 AA021091	Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267 Hs.226208	ESTs . Homo saplens clone 25100 mRNA sequence; ESTs EST ESTs ESTs ESTs neuroblastoma RAS viral (v-ras) oncogene ESTs	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	
121946 133843 122170 122399 105775 123943 105771 114454 125802	AA429411 AA489045 AA435744 AA446449 AA348274 AA621553 AA347967 AA021091 R78852	Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267 Hs.226208 Hs.151099	ESTs Homo saplens clone 25100 mRNA sequence; ESTs EST ESTs ESTs ESTs neuroblastoma RAS viral (v-ras) oncogene ESTs ESTs	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	
121946 133843 122170 122399 105775 123943 105771 114454 125802 131556	AA429411 AA489045 AA435744 AA446449 AA348274 AA621553 AA347967 AA021091 R78852 AA442853	Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267 Hs.226208 Hs.151099 Hs.2869	ESTs Homo sapiens clone 25100 mRNA sequence; ESTs EST ESTs ESTs neuroblastoma RAS viral (v-ras) oncogene ESTs ESTs Cyclin-dependent kinase 5; regulatory su	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	
121946 133843 122170 122399 105775 123943 105771 114454 125802 131556 118837	AA429411 AA489045 AA435744 AA446449 AA348274 AA621553 AA347967 AA021091 R78852 AA442853 N79836	Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267 Hs.26208 Hs.151099 Hs.2869 Hs.216338	ESTs Homo septems clone 25100 mRNA sequence; ESTs ESTs ESTs ESTs neuroblastoma RAS viral (v-ras) oncogene ESTs ESTs ESTs ESTs ESTs ESTs	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	
121946 133843 122170 122399 105775 123943 105771 114454 125802 131556 118837 107345	AA429411 AA489045 AA435744 AA446449 AA348274 AA621553 AA347967 AA021091 R78852 AA442853 N79836 U26209	Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267 Hs.256208 Hs.151099 Hs.2869 Hs.216338 Hs.102307	ESTs Homo septems clone 25100 mRNA sequence; ESTs ESTs ESTs ESTs neuroblastoma RAS viral (v-ras) oncogene ESTs ESTs ESTs ESTs ESTs ESTs ESTs solute carrier family 13 (sodium-depende	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	
121946 133843 122170 122399 105775 123943 105771 114454 125802 131556 118837 107345 131324	AA429411 AA489045 AA435744 AA446449 AA621553 AA347967 AA021091 R78852 AA442853 N79835 U28209 H58690	Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267 Hs.226208 Hs.151099 Hs.216338 Hs.102307 Hs.25625	ESTs Homo sapiens clone 25100 mRNA sequence; ESTs ESTs ESTs ESTs neuroblastoma RAS viral (v-ras) oncogene ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	
121946 133843 122170 122398 105775 123943 105771 114454 12582 131556 118837 107345 131324 105233	AA429411 AA489045 AA435744 AA446449 AA621553 AA347967 AA021091 R78852 AA442853 N79853 N79850 H58690 AA216759	Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267 Hs.226208 Hs.151099 Hs.216338 Hs.102307 Hs.25625 Hs.191132	ESTs Homo septens clone 25100 mRNA sequence; ESTs ESTs ESTs ESTs estrs euroblastoma RAS viral (v-ras) oncogene ESTs ESTs ESTs ESTs ESTs ESTs eyclin-dependent kinase 5; regulatory su ESTs solute carrier family 13 (sodium-depende ESTs ESTs	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	
121946 133843 122170 122399 105775 123943 105771 114454 125802 131556 118837 107345 131324 105233 112886	AA429411 AA489045 AA435744 AA446449 AA348274 AA621553 AA347967 AA021091 R78852 AA442853 N79836 U26209 H58690 AA216759 T03864	Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267 Hs.151099 Hs.2869 Hs.216338 Hs.102307 Hs.25625 Hs.191132 Hs.7436	ESTs Homo septems clone 25100 mRNA sequence; ESTs ESTs ESTs ESTs neuroblastoma RAS viral (v-ras) oncogene ESTs ESTs cyclin-dependent kinase 5; regulatory su ESTs solute carrier family 13 (sodium-depende ESTs ESTs putative acytiransferase	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	
121946 133843 122170 122399 105775 123943 105771 114454 125802 131556 118837 107345 131324 105232 112886 120252	AA429411 AA489045 AA435744 AA446449 AA348274 AA621553 AA347967 AA021091 CAMADE CONTROL OF CONTROL O	Hs.104888 Hs.76691 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267 Hs.256267 Hs.25629 Hs.216338 Hs.102307 Hs.25625 Hs.191132 Hs.7436 Hs.152701	ESTs Homo septens clone 25100 mRNA sequence; ESTs ESTs ESTs ESTs estrs euroblastoma RAS viral (v-ras) oncogene ESTs ESTs ESTs ESTs ESTs ESTs eyclin-dependent kinase 5; regulatory su ESTs solute carrier family 13 (sodium-depende ESTs ESTs	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	
121946 133843 122170 1223943 105775 123943 105771 114454 125802 131556 118837 107345 131324 105233 112888 120228 114867	AA429411 AA489045 AA435744 AA446449 AA348274 AA621553 AA347967 AA021091 R78852 AA442853 N79836 U26209 H58690 AA216759 T03864 AA169400 AA235310	Hs.104888 Hs.766911 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267 Hs.256208 Hs.151099 Hs.2669 Hs.26638 Hs.102307 Hs.25625 Hs.191132 Hs.7436 Hs.152701 Hs.52899	ESTs Homo septems clone 25100 mRNA sequence; ESTs ESTs ESTs ESTs neuroblastoma RAS viral (v-ras) oncogene ESTs ESTs ESTs ESTs eyclin-dependent kinase 5; regulatory su ESTs solute carrier family 13 (sodium-depende ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	
121946 133843 122170 122399 105775 123943 105771 114454 125802 131556 118837 107345 131324 105233 112886 120252 114867 106715	AA429411 AA489045 AA435744 AA446449 AA4621553 AA347967 AA021091 R78852 AA42853 U26209 H58690 AA216759 T03864 AA169400 AA235310 AA464955	Hs.104888 Hs.766911 Hs.163913 Hs.231112 Hs.6664 Hs.112998 Hs.256267 Hs.256208 Hs.151099 Hs.2669 Hs.26638 Hs.102307 Hs.25625 Hs.191132 Hs.7436 Hs.152701 Hs.52899	ESTs Homo septems clone 25100 mRNA sequence; ESTs ESTs ESTs ESTs neuroblastoma RAS viral (v-ras) oncogene ESTs ESTs cyclin-dependent kinase 5; regulatory su ESTs solute carrier family 13 (sodium-depende ESTs ESTs putative acytiransferase DKFZP434F124 protein	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	2.07
121946 133843 122170 122399 105775 123943 105771 114454 125802 131556 118837 107345 131324 105233 112886 120252 114867 106715	AA429411 AA489045 AA435744 AA446449 AA4621553 AA347967 AA021091 R78852 AA42853 U26209 H58690 AA216759 T03864 AA169400 AA235310 AA464955	Hs. 104888 Hs. 76691 Hs. 163913 Hs. 231112 Hs. 6664 Hs. 112998 Hs. 256267 Hs. 226208 Hs. 151099 Hs. 216338 Hs. 102307 Hs. 25625 Hs. 191132 Hs. 7436 Hs. 152701 Hs. 52899 Hs. 126062 Hs. 13692	ESTs Homo saplens clone 25100 mRNA sequence; ESTs ESTs ESTs ESTs eSTs neuroblastoma RAS viral (v-ras) oncogene ESTs ESTs cyclin-dependent kinase 5; regulatory su ESTs solute carrier family 13 (sodium-depende ESTs ESTs putative acyltransferase DKFZP434F124 protein ESTs; Moderately similar to EPIDERMAL GROW ESTs; Weakly similar to EPIDERMAL GROW ESTs; Hothy similar to EPIDERMAL GROW	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	2.07
121946 133843 122739 105775 123943 105771 114454 125820 131556 118837 107345 131324 105232 114867 106715 125560 112270	AA429411 AA489045 AA435744 AA446449 AA348274 AA621553 AA347967 AA021091 K78852 AA442853 N79836 U26209 H58690 AA216759 T03864 AA169400 AA235310 AA484955 R53021	Hs. 104888 Hs. 76691 Hs. 163913 Hs. 231112 Hs. 6664 Hs. 112998 Hs. 256267 Hs. 226208 Hs. 151099 Hs. 216338 Hs. 102307 Hs. 25625 Hs. 191132 Hs. 7436 Hs. 152701 Hs. 52899 Hs. 126062 Hs. 13692	ESTs Homo saplens clone 25100 mRNA sequence; ESTs ESTs ESTs ESTs eSTs neuroblastoma RAS viral (v-ras) oncogene ESTs ESTs cyclin-dependent kinase 5; regulatory su ESTs solute carrier family 13 (sodium-depende ESTs ESTs putative acyltransferase DKFZP434F124 protein ESTs; Moderately similar to EPIDERMAL GROW ESTs; Weakly similar to EPIDERMAL GROW ESTs; Hothy similar to EPIDERMAL GROW	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	2.07
121946 133843 122739 105775 123943 105771 114454 125820 131556 118837 107345 131324 105232 114867 106715 125560 112270	AA429411 AA489045 AA435744 AA446449 AA4621553 AA347967 AA021091 R78852 AA42853 U26209 H58690 AA216759 T03864 AA169400 AA235310 AA464955	Hs. 104888 Hs. 76691 Hs. 163913 Hs. 231112 Hs. 6664 Hs. 112998 Hs. 256267 Hs. 226208 Hs. 151099 Hs. 2869 Hs. 25625 Hs. 191132 Hs. 7436 Hs. 152701 Hs. 52899 Hs. 126062	ESTs Homo saplens clone 25100 mRNA sequence; ESTs ESTs ESTs ESTs eSTs neuroblastoma RAS viral (v-ras) oncogene ESTs ESTs cyclin-dependent kinase 5; regulatory su ESTs solute carrier family 13 (sodium-depende ESTs ESTs putative acyltransferase DKFZP434F124 protein ESTs; Moderately similar to EPIDERMAL GROW ESTs; Weakly similar to EPIDERMAL GROW ESTs; Hothy similar to EPIDERMAL GROW	2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	2.07

445700	A A 44704E	LL F4040	For-		
	AA417345 AA621192		ESTs	2.07	
	W85818	10.1125%	ESTs; Moderately similar to IIII ALU SUB	2.07 2.07	
	AA085161		zn12c5.s1 Stratagene hNT neuron (#937233		
			IMAGE:54728 3° similar to TR:G1151228 G	2.07	
	L33799		procollagen C-endopeptidase enhancer	2.07	
	HG2915-H Z39063		Major Histocompatibility Complex, Class I, E	(GD:MZUUZZ)	2.07
117170	235003	Hs.17930	Humn DNA seq frm done 1033B10 on dir 6 for GalT3 (bela3-Galactosyllransferase)	2.07	
125672	AA152281	Hs.78601	uroporphyrinogen decarboxylase	2.07	
	N53360	Hs.165133	ESTs	2.07	
	U41163	Hs.229731	solute carrier family 6 (neurotransmille	2:07	
	AA535148			2.07	
	L19711 R33245	Hs.76111 Hs.23076		2.07	
	R63388	Hs.28412	ESTs; Wealthy similar to putative [C.eleg ESTs	2.07 2.06	
	N48571	Hs.46689	EST	2.06	
	AA456309		regulator of Fas-induced apoptosis	2.06	
125559	AA307550	Hs.119571	collagen; type ill; alpha 1 (Ehlers-Dani	2.06	
	AA397763			2.06	
	AA418545 U67369	Hs.73172	thyroid hormone receptor-associated prot growth factor independent 1	2.06	
	AA743646			2.06 2.06	
	AA614422			2.06	
	M10321	Hs.110802	von Willebrand factor	2.06	
108417	AA075716		zm89e5.s1 Stratagene ovarian cancer (#93		
102827	U94585	Un 4940€	CLUSTERIN PRECURSOR (HUMAN);, mRI		2.06
	H62396	Hs.13495 Hs.190266		2.06 2.06	
	U28131	- 100200	Human HMGI-C chimeric transcript mRNA, p		
	X87212	Hs.10029	cathepsin C	2.06	
107545	Z82022	Hs.26433	dollchyl-phosphate (UDP-N-acetylglucosam	2.06	
	M36089	Hs.98493		2.06	
	AA420973 U02619			2.06	
	AA235810	Hs.331 Hs 182522	general transcription factor IIIC; polyp	2.06 2.06	
	H57686	Hs.37486	ESTS	2.06	
			Homo sapiens mRNA; cDNA DKFZp434G23		2.06
110351	H41222	Hs.196459	ESTs	2.06	
			inositol(myo)-1(or 4)-monophosphatase 1	2.06	
	H62223 AA234259		ESTs; Wealty similar to 1111 ALU SUBFAMI ESTs	2.06 2.06	
	AA112595		Human DNA sequence from clone 1042K10 c		
			lyase (EC 4.3.2.2; Adenylosuccinase; AS		
			3). Contains ESTs; STSs; GS	2.06	
	W72982	Hs.58262	ESTS	2.06	
	AA112059 U66672	He 180513	ATP-binding cassette; sub-family A (ABC1	2.06 2.06	
	AA482015		ESTs; Highly similar to C8 [H.sapiens]	2.06	
	AA224413		ESTs	2.06	
	AA287667			2.06	
	X12517	Hs.1063	small nuclear ribonucleoprotein polypept	2.06	
	AA495792 R39066	Hs.139572 Hs.17638	ESTs	2.05 2.05	
106558	AA455111	Hs.182447	heterogeneous nuclear ribonucleoprotein	205	
126885	AA293052		ESTs; Wealdy similar to coded for by C.	2.05	
	T85190	Hs.179808	ESTs	2.05	
	U30255	Hs.75888	phosphogluconate dehydrogenase	2.05	
	X72475 AA461072		H.sapiens mRNA for rearranged lg kappa I ESTs	2.05	
	HG907-HT9		Mg44	2.05 2.05	
			testis specific leucine rich repeat prot	2.05	
	AA398255	Hs.31520	ESTs	2.05	
	AA442830		EST	2.05	
101025	JD4823 AA431768	Hs.81097	cytochrome c oxidase subunit VIII	2.05	
	AA431766 AA045306	Hs.4299R	ESTs; Weakly similar to alpha 1 [H.sapie ESTs	2.05 2.05	
	X74929	Hs.242463		2.05	
			ESTs; Moderately similar to IIII ALU SUB	2.05	
	AA300151	Hs.126857	ESTs	2.05	
	M60284		tachykinin receptor 2	2.05	
	AA191648 AA453415		ESTS Hu DNA sequence from clone 889N15 on chr	2.05	
100013	, 24160710		Thymocyte Marker CTX; the possibly alte	2.05	
114291	Z40690	Hs.123666	Homo saplens mRNA full length insert cDN	2.05	
105747	AA293719	Hs.30251	ESTs; Weakly similar to GLUCOSE-6-PHOSP	H	2.04

125325	AA332944	Hs.8402	adenytate cyclase 3	2.04	
119978	W88623	Hs.59190	EST	2.04	
102449	U48231	Hs.46348	bradykinin receptor B1	2.04	
101454	M21812	Hs.50889	myosin light chain 2	2.04	
116086	AA455904	Hs.86023	ESTs	2.04	
102297	U32674	Hs.198252	G protein-coupled receptor 9	2.04	
130889	D57622	Hs.20985	sin3-associated polypeptide; 30kD	2.04	
100196	D21853	Hs.79768		2.04	
120967	AA398111			2.04	
	AA293096		ESTs	2.04	
135031	R41604	Hs.9344	ESTs; Wealty similar to IIII ALU SUBFAMI	2.04	
104882	AA052954	Hs.29546	ESTs	2.04	
	AA404565		ESTs; Moderately similar to kinesin ligh	2.04	
	AA847856			2.04	
	AA620299		ESTs	2.04	
102272	U30610	Hs.41682	killer cell lectin-like receptor subfami	2.04	
	W38209		Accession not listed in Genbank	2.04	
	D81171	Hs.45208	ESTs; Weakly similar to collagen type VI	2.04	
			catenin (cadherin-associated protein); d	2.04	
	H67146	Hs.38564	ESTs	2.04	
	AA284845			2.04	
	AA434584				
	X99728		H.sapiens NDUFV3 gene, exon 3	2.04	
	U00802	Hs.89434	drebrin 1	2.04	
	H89505	110.00 10 .	vu81f4.s1 Soares fetal liver spleen 1NFL		
	1155555		to contains Alu repetitive element;, mR	2.04	
124579	N68345	Ha 127179	ESTs; Wealty similar to TERATOCARCINOM		2.04
	R45970	Hs.236349		2.04	
	AA133300		leukocyte-associated lg-like receptor 2	2.03	
	Z83741		H2A histone family; member M	2.03	
	T89107	Hs.13262		2.03	
	170060	Hs.163918		2.03	
	AA420998			2.03	
	AA521370		T T L	2.03	
	U07695	Hs.155227		2.03	
			ESTs; Wealdy similar to ZINC FINGER PROT		
	AA234663			2.03	
	X96849	112.103770	H.sapiens 5' mRNA of PECAM-1 molecule	2.03	
	U11863	Hs.75741		203	
	Z39059	Hs.27267		2.03	
	C14068	Hs.21806		2.03	
	D45371	Hs.80485	adipose most abundant gene transcript 1	203	
	AA598614			2.03	
	AA046737			2.03	
	AA206914			2.03	
	AA620343			2.03	
	M69238		aryi hydrocarbon receptor nuclear transi	2.03	
	N40467	Hs.93834	ESTs	2.03	
	T67452	Hs.13104	EST	2.03	
			Homo sapiens mRNA; cDNA DKFZp564D146		2.03
	AA173430	H8.03333		203	2.00
	AA070160	LI- 40200	zm69f4.s1 Stratagene neuroepithelium (#9 Homo sapiens chromosome 19; fosmid 39554		
	AA454599		Homo sapiens mRNA; cDNA DKFZp434I143		2.02
	AA207105		H.saplens mRNA for FEV protein	2.02	2.02
444204	Y08976 Z39259	Hs.26096		2.02	
	H62307	Hs.18575	ESTs; Wealdy similar to KIAA0246 [H.sapi	2.02	
120920	AA402624	Hs.63236		2.02	
100021	H54036	Hs.25619	synuclein; gamma (breast cancer-specific death-associated protein kinase 3	2.02	
131323	AA412133		CCT-	2.02	
				2.02	
	AA291526			2.02	
131292	AA035446	D- 244264	secretory carrier membrane protein 3	2.02	
132973	AA059415	Hs.214361		2.02	
103/2/	TEACED	Hs.6289 Hs.9779	growth factor receptor-bound protein 2	2.02	
1131/4	T54659		ESTS		
120904	AA398085	HS.142390		2.02	
134303	AA457242		etoposide induced mRNA	2.02	
128118	T81623	Hs.21765	hypothetical protein of unknown functio	2.02	
121087	AA398751	Hs.97304	ESTs	2.02	
102806	U90306	11.0515	Human Iroquols-class homeodomain protein	2.02	
103195	X70940	Hs.2642	eukaryotic translation etongation factor	2.02	
126767	C17148	11-040-4	C17148 Clontech human aorta polyA+mRNA	202	
105179	AA189083	Hs.21974	ESTs; Moderately similar to mBOCT [M.mus	202	
116797	H40486		yn87a08.s1 Soares adult brain N2b5HB55Y	0.00	
		11	3' similar to contains Atu repetitive e	2.02	
133268	AA099404	Hs.69307	ESTs	2.02	
123951	AA621721	HS.231130	ESI	2.02	

	AA286819	Hs.69485	ESTs; Weakly similar to similar to other	2.02	
110603	H65776	Hs.222403	ESTS	2.02	
101234	L29277	Hs.142258	signal transducer and activator of trans	2.02	
121208	AA400470	Hs.97805		2.02	
122598	AA453465	Hs.99329	ESTs	2.02	
110668	H84882	Hs.33791	ESTs; Wealty similar to K:Cl cotransport	2.02	
117137	H96670	Hs.42221		2.02	
119389	T88826	Hs.90973	ESTs	2.01	
102940	X13956	Hs.24998	Human 12S RNA induced by poly(rl); poly(	201	
100748	HG3517-H	T3711	Alpha-1-Antitrypsin, 5 End	2.01	
103012	X52638	Hs.739	6-phosphofructo-2-kinase/iructose-2:6-bi	2.01	
132755	AA609201	Hs.182635		2.01	
	H39589		ESTs; Highly similar to CGI-92 protein [	201	
133599	M64788	Hs.75151	RAP1; GTPase activating protein 1	2.01	
	N21081	Hs.15299	HMBA-inducible	2.01	
	AA256666			2.01	
	AA926843			201	
			apoptosis antagonizing transcription fac	2.01	
132601	R78838		fracture callus 1 (rat) homolog	2.01	
	N27366	Hs.43933	EST	2.01	
121108	AA399053	Hs.97529	EST	201	
	X69550		Rho GDP dissociation inhibitor (GDI) alp	2.01	
	H66049		ESTs; Wealty similar to putative p150 [H	2.01	
120606	AA282956		zt15h4.s1 NCL_CGAP_GCB1 Homo sapiens	cDN .	
			SW:CADR_MOUSE P3938 RETINAL-CADH		2.01
130070	T47969 .	Hs.194660	ceroid-lipofuscinosis; neuronal 3; juven	2.01	
130331	Z80783		H28 histone family; member L	2.01	
109599	F02602	Hs.6749	ESTs	2.01	
131749	W78211	Hs.31547	ESTs; Highly similar to NADH:ubiquinone	2.01	
129463	AA376905	Hs.111742	ESTs; Wealty similar to IIII ALU SUBFAMI	2.01	
114880	AA235698	Hs.65862	ESTs	2.01	
	AA135523			2.01	
115637	AA402727	Hs.76925	ESTs; Highly similar to R31167_2; partia	2.01	
109043	AA159605	Hs.72580	ESTs	2.01	
128901	Z41411	Hs.107040	ESTs	2.01	
124427	N36812	Hs.178663	ESTs	2	
100673	HG3033-HT	3194	Spliceosomei Protein Sap 62	2	
	AA078801		zm94a9.s1 Stratagene colon HT29 (#937221	2	
123764	AA610019	Hs.112654	ESTs	2	
	N70791	Hs.180060		2	
	AA460254			2	
128688	AA161469		receptor-interacting serine-threonine ki	2 .	
115592	AA399543		ESTS	2	•
111693		Hs.23321	EST .	2	
113353	T79186	Hs.14468	ESTs	2	

Table 18: B survivor vs Mets – Up in Mets

Pkey: Unique Eos probeset identifier number
ExAcen: Exemplar Accession number, Genbank accession number
Unigene Unique tumber
Unique Title: Unique gene title

		Unigene	Title: Unigene gene title		
Pkey	Ex Acen	UniG ID	Complete Title	Ratio BS/Met	
106024	AA412059	Hs.111742	ESTs; Weakly similar to IIII ALU SUBFAMI	0.17	
	N48603	Hs.14947		0.18	
	AA347973			0.2	
	Z48633	Hs.6940	H.saplens mRNA for retrotransposon	0.2	
	AA609943			0.24	
	F02506		thyroid hormone receptor interactor 8	0.24 0.25	
	HG3484-HT		ESTs; Weekly similar to afternatively sp Protein Kinase (Gb:M59287)	0.25	
	U92014		Human clone 121711 defective mariner tra	0.26	
	AA169253		ESTs	0.26	
	AA283804		ESTs	0.27	
105952	AA405263	Hs.181400	ESTs	0.28	
	AA456981		ESTs	0.28	
	AA167567			0.28	
	R19414	Hs.166459		0.29	
	N66767	Hs.124145		0.29 0.29	
	AA215379 U28831	ns.au4 10	ESTs Human protein Immuno-reactive with anti-	0.3	
		Hs 222992	ESTs; Weakly similar to TRANSFORMATION		0.3
	F13663	Hs.16798	ESTs	0.3	
	N63165	Hs.23618	=	0.31	
135315	W90583	Hs.9853	ESTs	0.32	
	AA029288		ESTs; Highly similar to ZINC FINGER PROT		
	AA608893			0.33	
	AA455286			0.33	
	H87770	Hs.153800		0.33 0.34	
	AA130988 AA393808		regulator of mitotic spindle assembly 1	0.34	
	AA026617			0.34	
	N69324	Hs.12526			
	177866	Hs.189703		0.35	
125371	AI084676	Hs.133266	ESTs; Moderately similar to Sqv-7-like p	0.35	
			ESTs; Wealthy similar to CGI-73 protein [	0.35	
	T91116	Hs.15713		0.35	
	AA417911			0.35	
	AA256157 AA490866		ESTS ESTS	0.35 0.36	
	R39882	Hs.21397	ESTS	0.36	
	T53722	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ya91c06.r3 Stratagene placenta (#937225)	0.36	
	AA608794	Hs.112592		0.36	
123131	AA487207			0.36	
	T86914	Hs.194485		0.36	
	AA136725			0.37	
	AA446695		Homo sapiens clone 23926 mRNA sequence		
			eukaryotic translation initiation factor ESTs; Moderately similar to 67A9.b [D.me	0.37 0.37	
	A1434405		triple functional domain (PTPRF Interact	0.38	•
	AA487563			0.38	
	AA020957			0.38	
129974	K00629	Hs.199300	Human kpni repeat mma (cdna done pcd-k	0.38	
	D49728	Hs.1119	nuclear receptor subfamily 4; group A; m	0.38	
	T79020		ESTs; Weakly similar to kinase-related p	0.39	
	W91995	Hs.16145		0.39	
	AA431296		amine oxidase; copper containing 2 (reti	0.39 0.39	
	N50959 H19326		ESTs; Highly similar to J KAPPA-RECOMBIN		
10165	AA004652			0.39	
124777	R41933	Hs.140237	ESTs	0.39	
125382	AA713494	Hs.194660	cerold-lipofuscinosis; neuronal 3; juven	0.4	
120406	AA234999	Hs.111279	ESTs; Weakly similar to unnamed protein	0.4	
	R23653	Hs.164250		0.4	
117001	H84719	Hs.40721	ESI	0.4	
			ESTs; Highly similar to PHOSPHATIDYLINOS Homo sapiens mRNA; cDNA DKFZp727C191		0.4
125466	AA355158	1011467	Trong square interval complete children	/m	U.7

121989	AA430044	Hs.193784	Homo sapiens mRNA; cDNA DKFZp586K192	7) (T	0.4
127921	AA806616	Hs.209523	ESTs	0.4	•.,
	W74700	Hs.53478		70.41	
	AA435571			0.41	
	U82303 T89731	HS.123060	Homo saplens unknown protein mRNA; parti ye11106.s1 Stratagene tung (#937210) H s	0.41	
710010	103/31		to contains Alu repetitive elementocont	0.41	
100635	HG2724-H	T2820	Oncogene Tis/Chop, Fusion Activated	0.41	
	T70356	Hs.193141	ESTs; Wealthy similar to coding sequence	0.41	
			ESTs, Wealthy similar to IIII ALLI CLASS B	0.42	
	R34382 AA052050	Hs.24779	ESTs; Highly similar to dJ1119D9.2 [H.sa	0.42 0.42	
	W95592		ESTs; Moderately similar to POLYADENYLAT		
	T86475		Homo saptens mRNA; cDNA DKFZp586B211		0.43
		Hs.26764	KIAA0546 protein	Ò.43	
	AA132524			0.43	
	W80741 AA398285	Hs.37890 He 97598		0.43 0.43	
	AA054597			0.43	
	N58185	Hs.131830		0.43	
	AA032013			0.43	
	C16652	Hs.107205	Homo sapiens mRNA; cDNA DKFZp434L222		0.43
	N38770	Hs.4283	actin binding protein; macrophin (microf ESTs	0.44 0.44	
	AA450420			0.44	
	H93046	Hs.15571	ESTs	0.44	
	AA280583			0.44	
	N39453		Homo sapiens mRNA; cDNA DKFZp566J123		0.44
	AA233375 U31449		transmembrane 4 superfamily member 4	0.44 0.44	
	N70582	Hs.49892		0.44	
	AA281244			0.44	
	T51588		ESTs; Moderately similar to IIII ALU SUB	0.44	
	T97931 N73808	Hs.18190		0.44	
	AA094107	Hs.24936 Hs 7187	ESTs; Weakly similar to similar to glyco	0.44 0.44	
	T57865	Hs.10310	EST	0.44	
100315	D50857	Hs.82295	dedicator of cyto-kinesis 1	0.44	
	AA279024			0.44	
	H46104 N26011	Hs.244624 Hs.53810		0.44 0.45	
	W42450	Hs.206833		0.45	
124517	N58204	Hs.199945	ESTs	0.45	
			Human endogenous retroviral protease mRN		
	R91954	Hs.153699		0.45	
	T70341 AA422123	Hs.131897 Hs 42457	ESTS	0.45 0.45	
	AA432080			0.45	
	W02695	Hs.18714		0.45	
	Al124649	Hs.252708	Homo saplens mRNA; cDNA DKFZp5860031		0.45
12/823	PANZAGUO FINANS	Hs.223654	transcription elongation factor A (SII);	0.45 0.45	
	AA443272		ESTs	0.45	
132693	AA621429	Hs.55075	KIAA0410 gene product	0.45	
107388	W01587	Hs.173319	ESTS	0.45	
110688	H93021	HS.182937	peptidyiprotyl isomerase A (cyclophilin EST	0.46	
105335	AA236542	Hs 9512		0.46 0.46	
115601	AA400277	Hs.48849	ESTs	0.46	
106896	AA489707	Hs.29896	ESTs; Wealty similar to profine-rich pro	0.46	
111770	R27975	Hs.187469	ESTs	0.46	
115663	AA405838	HS.40507		0.46	
	AA101828			0.46 0.46	
	AI025771			0.46	
	AA338960			0.46	
100020	A 1.0000000		AFFX control: BioB-3	0.46	
	AA205072 R41724		KIAA0980 protein	0.47 0.47	
	AA121403			0.47 0.47	
116994	H83918	Hs.40528	ESTs	0.47 0.47	
118401	N64762	Hs.49053	EST	0.47	
110997	N52540	Hs.74316	desmoplakin (DPI; DPII)	0.47	
123791	AA620331 H02266	HS.245351	EST	0.47	
	AA287122			0.47 0.47	
1,57,0		1000 1			

130608	AA402109	Hs.16593	ESTs	0.47
	AA454827			0.47
125881	AA775807	Hs.150741	2',3'-cyclic nucleotide 3' phosphodieste	0.47
	F04112	Hs.177178		0.47
108995	AA155574	Hs.172702	ESTs	0.47
125102	T95105	Hs.173772	ESTS	0.47
110421	H48462	Hs.36093	ESTs; Wealtly similar to reverse transcri	0.47
105658	AA282914	Hs.10176	ESTs	0.47
129046	AA195678	Hs.108258	actin binding protein; macrophin (microf	0.47
	T95128	Hs.17529		0.48
132575	AA045365	Hs.5188	ESTs; Wealty similar to 60S RIBOSOMAL PI	R0.48
132592	AA129390	Hs.5285	ESTs	0.48
107619	AA004955	Hs.60015	ESTs	0.48
118684	N70907	Hs.230619	EST	0.48
127612	AA917801	Hs.116076	ESTs	0.48
112319	R55615	Hs.26432	ESTs; Weakly similar to finger protein H	0.48
113635	T95087	Hs.15543	ESTs	0.48
119344	T62969	Hs.193348	ESTs	0.48
121080	AA398720	Hs.177953	ESTs	0.48
133686	X83378	Hs.211614	chloride channel 6	0.48
130395	R54534	Hs.87889	helicase-moi	0.49
127530	AA563806	Hs.145728	ESTs	0.49
132971	AA033951	Hs.61700	ESTs	0.49
127132	AA721156	Hs.190440	ESTs	0.49
	T72661	Hs.13969		0.49
	AA234112			0.49
	AA018937			0.49
	AA007242			0.49
	AB002296			
	AA927308			0.49
	H83465	Hs.221934		0.49
	H30721	Hs.30172		0.49
	U45974	Hs.25156		0.49
	C20633	Hs.24129		0.49
	Al127843	Hs.155071		0.5
	171776	Hs.12097		0.5
			ESTs; Moderately similar to IIII ALU SUB	0.5
	AA423972		ESTs	0.5
	N63150	Hs.48723		0.5
	C20596	Hs.26985	· · · · · · · · · · · · · · · · · · ·	0.5
	AA019528		ESTs	0.5
119358	T70550	Hs.193651	ESTs; Wealdy similar to alternatively sp	0.5

## Table 19: B survivor vs Mets – Up in B survivor

Pkey: Unique Eos probeset identifier number
ExAcca: Exemplar Accession number, Genhauk accession number
Unigene Title: Unigene gene title

Pkey	Ex Acen	Uni <b>G_</b> ID	Complete Title	Ratio BS/Met
333601			CH22 FGENES.213 4	r e
325300			CH.11_hs gij5866908	5.5 4.67
333642			CH22_FGENES.231_2	4.67 4.64
333591			CH22 FGENES 208 4	4.46
332859			CH22_FGENES.27_2	4.39
304013	AW518573	Hs.156110	Immunoglobulin kappa variable 1D-8	4.23
333791			CH22_FGENES.274_10	4.18
327641			CH.04_hs gij5867890	4.03
	H49160	Hs.133472	ESTs	3.9
334125			CH22_FGENES.334_4	3.88
333646			CH22_FGENES.234_2	3.88
326554			CH.19_hs gi 5867308	3.84
333650			CH22_FGENES.238_3	3.82
333647			CH22_FGENES.235_2	3.79
333626		LI- 404044	CH22_FGENES.224_2	3.68
	AW236550 AW20523			3.68
333657		D2 101202	CH22_FGENES.241_2	3.67
338522			CH22_EM:AC005501.GENSCAN.395-36	3.65 3.64
329464			CHLY_hs gij6456788	3.6
328868			CH.07_hs gi6381930	3.6
333637			CH22_FGENES.229_2	3.59
329737			CH.14_p2 gij6065779	3.5
317828	AJ791749	Hs.128896		3.44
330520	M96995	Hs.6289	growth factor receptor-bound protein 2	3.44
339271			CH22_BA354I12.GENSCAN.11-2	3.44
	A1735482	Hs.159580		3.42
334782		11 400000	CH22_FGENES.432_7	3.42
	AW138842			3.4
338648	H51596	Hs.5541	ATPase; Ca++ transporting; ubiquitous	3.38
325677			CH22_ENtAC005500.GENSCAN.460-6 CH.14_hs g15867017	3.38
	H50648	Hs 213221	ESTs; Weakly similar to IIII ALU SUBFAMI	3.34 3.33
326545	1200.0	7 202 1022,1	CH.19_hs gi5867307	3.32
	R44616	Hs.138280	ESTs; Moderately similar to IIII ALU SUB	3.3
	Al625428		EST singleton (not in UniGene) with exon	3.26
328569			CH.07_hs gi]6004480	3.26
328582			CH.07_hs gi 6006033	3.24
	AM92857	Hs.170940		3.24
336883	********		CH22_FGENES.322-2	3.21
	AW236939	HS.172154		3.2
337870	A1004042		CH22_EMAC005500.GENSCAN.48-3	3.19
	A1001043 Z45264		EST singleton (not in UniGene) with exon	3.17
335247	240204		EST cluster (not in UniGene) CH22_FGENES.516_8	3.16
	AA088768		EST cluster (not in UniGene)	3.12 3.1
	R06504		EST cluster (not in UniGene)	3.09
		Hs.192662	ESTs; Wealty similar to ZINC FINGER PROT	3.08
321215	AW378128	Hs.120243	ESTs; Wealthy similar to CGI-56 protein [	3.04
328507			CHL07_hs gi[5868473	3.03
330266			CH.05_p2 gip671885	3.02
326249			CH.17_hs glips67263	3.01
325649	* * ***		CH.14_hs gl[6588011	299
304575	AA496437		EST singleton (not in UniGene) with exon	2.98
	AA488050		EST singleton (not in UniGene) with exon	2.97
338412	Al769997		CH22_EM:AC005500.GENSCAN.341-25	2.96
343077	N34307	He 194000	EST singleton (not in UniGene) with exon	2.95
305E0U	AI000246	104003	ESTs; Wealty similar to IIII ALLU SUBFAMI	2.95 2.95
306183	AA922622		EST singleton (not in UniGene) with exon EST singleton (not in UniGene) with exon	2.95 2.94
308611	Al735372	Hs.203820	EST; Moderately similar to TRANSLATIONAL	294
332454	T63265	Hs.11186	ESTs: Weakly similar to transformation-r	2.94

330061			CH.17_p2 gij6721261	2.94
317671	AW138139	Hs.244598	ESTs	2.93
338705			CH22_ENtAC005500.GENSCAN.480-4	2.93
333737			CH22_FGENES.261_1	29
337756			CH22_EN:AC000097.GENSCAN.109-3	2.9
333572			CH22_FGENES.189_1	2.89
335349			CH22_FGENES.539_2	2.89
328835			CH_07_hs gij5868339	2.89
319886	AA984628		EST cluster (not in UniGene)	2.88
311247	A1655313	Hs.197692		2.87
	R72672	Hs.193484	ESTs; Wealdy similar to Similarity with	2.86
337584			CH22_C65E1.GENSCAN.1-7	2.85
333225			CH22_FGENES.107_3	2.84
	AA515635		EST cluster (not in UniGene)	2.83
	AA846052		EST singleton (not in UniGene) with exon	2.83
	AA679505		EST singleton (not in UniGene) with exon	2.83
	AA386264	Hs.5337	isocitrate dehydrogenase 2 (NADP+); mito	2.81
338508	******		CH22_EM:AC005500.GENSCAN.391-1	2.81
	A1475411	11- 440440	EST singleton (not in UniGene) with exon	281
	AW194107	MS. 1494 10	ESTs; Weakly similar to salivary profine	2.8 2.8
325571	41440404	Hs.176835	CH.12_hs gij6552439	28
337456	Al148181	ns.170000	CH22_FGENES.777-2	2.79
	AUTOTOGG	Hs.201995		2.79
	AI797066 AA065003	Hs.64179	hypothetical protein	2.78
333717	***************************************	115.07175	CH22 FGENES.253 3	2.76
	AW505368		EST cluster (not in UniGene) with exon h	2.76
	AA602697		EST singleton (not in UniGene) with exon	2.76
	R00371		EST cluster (not in UniGene)	2.75
336072			CH22_FGENES.685_4	2.74
	AA897764		EST singleton (not in UniGene) with exon	2.74
336127			CH22_FGENES.701_15	2.74
337355			CH22_FGENES.728-1	2.73
337885			CH22_EM:AC005500.GENSCAN.54-3	2.73
308506	AJ686791	Hs.119598	ribosomal protein £3	2.73
300629	AA152119	Hs.155101	ATP synthase; H+ transporting; mitochond	2.73
333043			CH22_FGENES.70_4	2.72
327736			CH.05_hs gij5867940	2.72
333007			CH22_FGENES.60_4	2.72
	AL122111		EST cluster (not in UniGene)	2.72
	AW452576			2.72
	AA609625	Hs.112933	Homo saplens Tax Interaction protein 40	2.71
326224			CH.17_hs glj5867230	2.71
329114			CHX_hs gij5868650	2.7 2.69
333577	AW090347	Un 242442	CH22_FGENES.196_2	2.67
	R07994	TS.240440	EST singleton (not in UniGene) with exon	2.67
	Al935304	He 125252	DKFZP586G1624 protein	2.57
337848	Alboout	113,120202	CH22_EM:AC005500.GENSCAN.33-1	2.66
327946			CH.06_hs gli5868206	2.66
	AA937573			
			EST singleton (not in UniGene) with exon	2.66
	R01646	Hs.200538	EST singleton (not in UniGene) with exon ESTs	2.66 2.65
304841	R01646 AA587541	Hs.200538	ESTs	
	R01646 AA587541 Al860987	Hs.200538 Hs.189097	ESTs EST singleton (not in UniGene) with exon	2.65
301321	AA587541	Hs.189097	ESTs EST singleton (not in UniGene) with exon	2.65 2.65
301321	AA587541 AJ860987	Hs.189097	ESTs EST singleton (not in UniGene) with exon ESTs	2.65 2.65 2.65
301321 311280	AA587541 AJ860987	Hs.189097	ESTs ingleton (not in UniGene) with exon ESTs Street Stree	2.65 2.65 2.65 2.65
301321 311280 338843 335720 333670	AA587541 Al860987 Al767957	Hs.189097	ESTs ingleton (not in UniGene) with exon ESTs Straighton (not in UniGene) with exon ESTs; Weakly similar to Y38A8.1 gene pro CH22_DJ246D7.GENSCAN.8-1	2.65 2.65 2.65 2.65 2.64 2.64 2.64
301321 311280 338843 335720 333670	AA587541 AJ860987	Hs.189097	ESTs EST singleton (not in UniGene) with exon ESTs ESTs; Weakly similar to Y38A8.1 gene pro CH22_DJ246D7.GENSCAN.8-1 CH22_FGENES.599_23 CH22_FGENES.245_4 ESTs	2.65 2.65 2.65 2.65 2.64 2.64 2.64 2.64
301321 311280 338843 335720 333670	AA587541 Al860987 Al767957	Hs.189097 Hs.197737	ESTs EST singleton (not in UniGene) with exon ESTs ESTs; Weakly similar to Y38A8.1 gene pro CH22_DJ246D7.GENSCAN.8-1 CH22_FGENES.599_23 CH22_FGENES.245_4 ESTs CH22_FGENES.602_4	2.65 2.65 2.65 2.65 2.64 2.64 2.64 2.64 2.63
301321 311280 338843 335720 333670 313588 335750 333240	AA587541 AI860987 AI767957 AI803591	Hs.189097 Hs.197737	ESTs EST singleton (not in UniGene) with exon ESTs ESTs; Weakly similar to Y38A8.1 gene pro CH22_DJ246D7.GENSCAN.8-1 CH22_FGENES.599_23 CH22_FGENES.245_4 ESTs CH22_FGENES.602_4 CH22_FGENES.111_4	2.65 2.65 2.65 2.64 2.64 2.64 2.63 2.63
301321 311280 338843 335720 333670 313588 335750 333240 332721	AA587541 Al860987 Al767957	Hs.189097 Hs.197737	ESTs EST singleton (not in UniGene) with exon ESTs ESTs; Weakly similar to Y38A8.1 gene pro CH22_DJ246D7.GENSCAN.8-1 CH22_FGENES.599_23 CH22_FGENES.245_4 ESTs CH22_FGENES.602_4 CH22_FGENES.111_4 CD79A antigen (immunoglobutin-associated	2.65 2.65 2.65 2.64 2.64 2.64 2.63 2.63 2.62
301321 311280 338843 335720 333670 313588 335750 333240 332721 338747	AA587541 AI860987 AI767957 AI803591 R70212	Hs.189097 Hs.197737	ESTs EST singleton (not in UniGene) with exon ESTs ESTs; Weakly similar to Y38A8.1 gene pro CH22_DJ246D7.GENSCAN.8-1 CH22_FGENES.599_23 CH22_FGENES.245_4 ESTs CH22_FGENES.602_4 CH22_FGENES.111_4 CD79A antigen (Immunoglobulin-associated CH22_EM:AC005500.GENSCAN.511-1	2.65 2.65 2.65 2.64 2.64 2.64 2.63 2.63 2.62 2.62
301321 311280 338843 335720 333670 313588 335750 333240 332721 338747 303582	AA587541 AI860987 AI767957 AI803591	Hs.189097 Hs.197737	ESTs ingleton (not in UniGene) with exon ESTs STs ingleton (not in UniGene) with exon ESTs: Weakly similar to Y38A8.1 gene pro CH22_DJ24607.GENSCAN.8-1 CH22_FGENES.599_23 CH22_FGENES.245_4 ESTs CH22_FGENES.602_4 CH22_FGENES.111_4 CD79A antigen (Immunoglobulin-associated CH22_EMAC005500.GENSCAN.511-1 EST cluster (not in UniGene) with exon h	2.65 2.65 2.65 2.64 2.64 2.64 2.63 2.63 2.62 2.62 2.62
301321 311280 338843 335720 333670 313588 335750 333240 332721 338747 303582 336898	AA587541 AI860987 AI767957 AI803591 R70212	Hs.189097 Hs.197737	ESTs ingleton (not in UniGene) with exon ESTs Singleton (not in UniGene) with exon ESTs: Weakly similar to Y38A8.1 gene pro CH22_DJ24607.GENSCAN.8-1 CH22_FGENES.599_Z3 CH22_FGENES.245_4 ESTs CH22_FGENES.602_4 CH22_FGENES.111_4 CD79A antigen (immunoglobulin-associated CH22_EMAC005500.GENSCAN.511-1 EST cluster (not in UniGene) with exon h CH22_FGENES.330-1	2.65 2.65 2.65 2.64 2.64 2.64 2.63 2.63 2.62 2.62 2.62 2.62
301321 311280 338843 335720 333670 313588 335750 333240 332721 338747 303582 336898 325835	AA587541 AI860987 AI767957 AI803591 R70212 AA377444	Hs.189097 Hs.197737	ESTs singleton (not in UniGene) with exon ESTs EST singleton (not in UniGene) with exon ESTs. Weakly similar to Y38A8.1 gene pro CH22_DJ246D7.GENSCAN.8-1 CH22_FGENES.599_23 CH22_FGENES.245_4 ESTs CH22_FGENES.602_4 CH22_FGENES.111_4 CD79A antigen (Immunoglobulin-associated CH22_EMAC005500.GENSCAN.511-1 EST cluster (not in UniGene) with exon h CH22_FGENES.330-1 CH.16_hs gij5552452	2.65 2.65 2.65 2.64 2.64 2.64 2.63 2.63 2.62 2.62 2.62 2.62 2.62
301321 311280 338843 335720 333670 313588 335750 333240 332721 338747 303582 336898 325835 301660	AA587541 AI860987 AI767957 AI803591 R70212	Hs.189097 Hs.197737	ESTs singleton (not in UniGene) with exon ESTs EST singleton (not in UniGene) with exon ESTs: Weakly similar to Y38A8.1 gene pro CH22_DJ246D7.GENSCAN.8-1 CH22_FGENES.599_23 CH22_FGENES.245_4 ESTs CH22_FGENES.602_4 CH22_FGENES.611_4 CD79A antigen (immunoglobutin-associated CH22_EMAC005500.GENSCAN.511-1 EST cluster (not in UniGene) with exon h CH22_FGENES.330-1 CH.16_hs qtip5552452 EST cluster (not in UniGene) with exon h	2.65 2.65 2.65 2.64 2.64 2.63 2.63 2.62 2.62 2.62 2.62 2.62 2.62
301321 311280 338843 335720 333670 313588 335750 333240 332721 338747 303582 336898 325835 301660 335968	AA587541 AI860987 AI767957 AI803591 R70212 AA377444	Hs.189097 Hs.197737	ESTs singleton (not in UniGene) with exon ESTs EST singleton (not in UniGene) with exon ESTs: Weakly similar to Y38A8.1 gene pro CH22_DJ24607.GENSCAN.8-1 CH22_FGENES.599_23 CH22_FGENES.245_4 ESTs CH22_FGENES.602_4 CH22_FGENES.111_4 CD79A antigen (immunoglobulin-associated CH22_EM:AC005500.GENSCAN.511-1 EST cluster (not in UniGene) with exon h CH22_FGENES.330-1 CH.16_hs gii5552452 EST cluster (not in UniGene) with exon h CH22_FGENES.662_1	2.65 2.65 2.65 2.64 2.64 2.64 2.63 2.63 2.62 2.62 2.62 2.62 2.62 2.61 2.61
301321 311280 338843 335720 333670 313588 335750 33240 332721 338747 3035898 325835 301660 335968 335756	AA587541 A860987 AI767957 AI803591 R70212 AA377444 F13112	Hs.189097 Hs.197737	ESTs singleton (not in UniGene) with exon ESTs STs; Weakly similar to Y38A8.1 gene pro CH22_DJ24607.GENSCAN.8-1 CH22_FGENES.599_23 CH22_FGENES.599_23 CH22_FGENES.602_4 CH22_FGENES.111_4 CD79A antigen (Immunoglobulin-associated CH22_EM:AC005500.GENSCAN.511-1 EST cluster (not in UniGene) with exon h CH22_FGENES.330-1 CH.16_hs gij3552452 EST cluster (not in UniGene) with exon h CH22_FGENES.652_1 CH22_FGENES.63-2	2.65 2.65 2.65 2.64 2.64 2.64 2.63 2.63 2.62 2.62 2.62 2.62 2.62 2.61 2.61 2.6
301321 311280 338843 335720 333670 313588 335750 33240 332721 338747 303582 33688 325835 301660 335968 335968 335705 309815	AA587541 AI860987 AI767957 AI803591 R70212 AA377444	Hs.189097 Hs.197737	ESTs ingleton (not in UniGene) with exon ESTs Straingleton (not in UniGene) with exon ESTs: Weakly similar to Y38A8.1 gene pro CH22_DJ24607, GENSCAN.8-1 CH22_FGENES.599_23 CH22_FGENES.599_23 CH22_FGENES.602_4 CH22_FGENES.602_4 CH22_FGENES.111_4 CD79A antigen (immunoglobulin-associated CH22_EMAC005500.GENSCAN.511-1 EST cluster (not in UniGene) with exon h CH22_FGENES.330-1 CH.16_hs qip3552452 EST cluster (not in UniGene) with exon h CH22_FGENES.652_1 CH22_FGENES.652_2 EST singleton (not in UniGene) with exon	2,65 2,65 2,65 2,64 2,64 2,64 2,63 2,63 2,63 2,62 2,62 2,62 2,62 2,61 2,61 2,6 2,6 2,6 2,6 2,6 2,6 2,6 2,6 2,6 2,6
301321 311280 338843 335720 333670 313588 335750 332740 332721 338747 303582 303582 301660 335968 335968 335968 335968 335908 335908 335908	AA587541 Al860987 Al767957 Al803591 R70212 AA377444 F13112 AW292760	Hs.189097 Hs.197737	ESTs ingleton (not in UniGene) with exon ESTs Singleton (not in UniGene) with exon ESTs: Weakly similar to Y38A8.1 gene pro CH22_DJ24607.GENSCAN.8-1 CH22_FGENES.599_23 CH22_FGENES.599_23 CH22_FGENES.602_4 ESTs CH22_FGENES.602_4 CH22_FGENES.111_4 CD79A antigen (immunoglobulin-associated CH22_EMAC005500.GENSCAN.511-1 EST cluster (not in UniGene) with exon h CH22_FGENES.330-1 CH.16_hs qip5552452 EST cluster (not in UniGene) with exon h CH22_FGENES.652_1 CH22_FGENES.652_1 CH22_FGENES.65-2 EST singleton (not in UniGene) with exon CH22_FFENES.65-2	2,65 2,65 2,65 2,64 2,64 2,64 2,63 2,63 2,63 2,62 2,62 2,62 2,62 2,62
301321 311280 338843 335720 333670 313588 335750 33240 332721 338742 336898 325835 301660 335968 336968 3369815 339220 308582	AA587541 A860987 AI767957 AI803591 R70212 AA377444 F13112	Hs.189097 Hs.197737	ESTs singleton (not in UniGene) with exon ESTs EST singleton (not in UniGene) with exon ESTs. Weakly similar to Y38A8.1 gene pro CH22_DJ246D7.GENSCAN.8-1 CH22_FGENES.599_23 CH22_FGENES.245_4 ESTs CH22_FGENES.602_4 CH22_FGENES.111_4 CD79A antigen (immunoglobutin-associated CH22_EMAC005500.GENSCAN.511-1 EST cluster (not in UniGene) with exon h CH22_FGENES.330-1 CH.16_hs gtip5552452 EST cluster (not in UniGene) with exon h CH22_FGENES.63-2 EST singleton (not in UniGene) with exon CH22_FGINES.63-2 EST singleton (not in UniGene) with exon CH22_FT13D11.GENSCAN.6-15 EST singleton (not in UniGene) with exon	2,65 2,65 2,65 2,64 2,64 2,64 2,63 2,63 2,63 2,62 2,62 2,62 2,62 2,61 2,61 2,61 2,61
301321 311280 338843 335720 333670 313588 335750 332721 338747 303582 336898 325636 301660 339705 309815 339220 308582 338582	AA587541 AB60987 AI767957 AI803591 R70212 AA377444 F13112 AW292760 AI709056	Hs.189097 Hs.197737	ESTs EST singleton (not in UniGene) with exon ESTs ESTs; Weakly similar to Y38A8.1 gene pro CH22_DJ246D7.GENSCAN.8-1 CH22_FGENES.599_23 CH22_FGENES.599_23 CH22_FGENES.245_4 ESTs CH22_FGENES.602_4 CH22_FGENES.111_4 CD79A antigen (immunoglobutin-associated CH22_EMAC005500.GENSCAN.511-1 EST cluster (not in UniGene) with exon h CH22_FGENES.330-1 CH12_FGENES.352 EST cluster (not in UniGene) with exon h CH22_FGENES.63-2 EST singleton (not in UniGene) with exon CH22_FT113D11.GENSCAN.6-15 EST singleton (not in UniGene) with exon CH22_FGENES.357_B	265 265 265 264 264 264 263 263 262 262 262 262 261 261 261 261 262 263 264 263 262 262 263 264 264 264 265 266 266 266 266 266 266 266 266 266
301321 311280 338843 335720 335720 313588 335750 333240 332721 338747 303582 336898 325835 30160 305868 335706 309815 309815 309863	AA587541 AB60987 AI767957 AI803591 R70212 AA377444 F13112 AW292760 AI709056 AW449073	Hs.189097 Hs.197737 Hs.209667 Hs.79630	ESTs singleton (not in UniGene) with exon ESTs STs; Weakly similar to Y38A8.1 gene pro CH22_DJ24607.GENSCAN.8-1 CH22_FGENES.599_23 CH22_FGENES.599_23 CH22_FGENES.602_4 CH22_FGENES.602_4 CH22_FGENES.111_4 CD79A antigen (immunoglobutin-associated CH22_EMAC005500.GENSCAN.511-1 EST cluster (not in UniGene) with exon in CH22_FGENES.330-1 CH22_FGENES.330-1 CH.16_ins gii5552452 EST cluster (not in UniGene) with exon in CH22_FGENES.63-2 EST singleton (not in UniGene) with exon CH22_FF113D11.GENSCAN.6-15 EST singleton (not in UniGene) with exon CH22_FF113D11.GENSCAN.6-15 EST singleton (not in UniGene) with exon CH22_FGENES.357_8 EST singleton (not in UniGene) with exon CH22_FGENES.357_8 EST singleton (not in UniGene) with exon	2,65 2,65 2,65 2,64 2,64 2,64 2,63 2,63 2,63 2,62 2,62 2,62 2,62 2,61 2,61 2,61 2,61
301321 311280 338843 335720 335720 313588 335750 333240 332721 338747 303582 336898 325835 30160 305868 335706 309815 309815 309863	AA587541 AB60987 AI767957 AI803591 R70212 AA377444 F13112 AW292760 AI709056	Hs.189097 Hs.197737	ESTs singleton (not in UniGene) with exon ESTs STs; Weakly similar to Y38A8.1 gene pro CH22_DJ24607.GENSCAN.8-1 CH22_FGENES.599_23 CH22_FGENES.599_23 CH22_FGENES.602_4 CH22_FGENES.602_4 CH22_FGENES.111_4 CD79A antigen (immunoglobutin-associated CH22_EMAC005500.GENSCAN.511-1 EST cluster (not in UniGene) with exon in CH22_FGENES.330-1 CH22_FGENES.330-1 CH.16_ins gii5552452 EST cluster (not in UniGene) with exon in CH22_FGENES.63-2 EST singleton (not in UniGene) with exon CH22_FF113D11.GENSCAN.6-15 EST singleton (not in UniGene) with exon CH22_FF113D11.GENSCAN.6-15 EST singleton (not in UniGene) with exon CH22_FGENES.357_8 EST singleton (not in UniGene) with exon CH22_FGENES.357_8 EST singleton (not in UniGene) with exon	265 265 265 264 264 264 263 262 262 262 262 261 261 26 26 26 26 26 26 26 26 26 26 26 26 26

308127	AM92187		EST singleton (not in UniGene) with exon	2.59	
337835			CH22_EMAC005500.GENSCAN_22-4	2.58	
333251			CH22_FGENES.116_3	2.58	
330319			CH_08_p2 gips932415	2.58	
	AI758114			2.57	
329665	AA878815	NSJ/3442	albumin - CH.14_p2 gij6272129	2.57 2.57	
328558			CH.07_hs gij5868489	2.57	
336094			CH22_FGENES.691_3	2.57	
307899	AI380270		EST singleton (not in UniGene) with exon	2.57	
339312			CH22_BA354112.GENSCAN.22-10	2.57	
336442			CH22_FGENES.827_8	2.57	
	R60848		EST cluster (not in UniGene)	2.56	
	HG2689-H	T2785	Mucin 5b, Tracheobronchial (Gb:X74955)	2.56	
327304	A109(Y7D7		CH.01_hs glj5867494	2.56	
	A1830787	He 161166	EST singleton (not in UniGene) with exon KIAA1094 protein	2.55	
	AA137045	12.101100	'EST singleton (not in UniGene) with exon	2.55 2.54	
338090			CH22_EM:AC005500.GENSCAN.176-3	2.53	
334797			CH22_FGENES.434_5	2.52	
303535	AL043430		EST cluster (not in UniGene) with exon h	2.52	
339037			CH22_DA59H18.GENSCAN.26-5	2.52	
327846			CH.05_hs gij6531962	2.52	
325271	D 4000C	1)- 045555	CH.11_hs gl[5866901 .	2.52	
	R42885	Hs.215555		2.51	
		Hs.124591	ESTs; Wealdy similar to alternatively sp	2.51 2.5	
		Hs.254515		2.5	
333762			CH22_FGENES.270_2	2.5	
317028	AA962623	Hs.189144	ESTs; Wealty similar to RENAL SODIUM-DE	P	2.5
326266			CH.17_hs gt 5867264	2.49	
326005			CH.16_hs gl[5867112	2.49	
	AJ003125	Hs.120330	a disintegrin-like and metalloprotease (	2.48	
326539 338896			CH.19_hs gl[5867307 CH22_DJ32H0.GENSCAN.9-4	2.48	
	Al040750		EST singleton (not in UniGene) with excon	2.48 · 2.47	
336279	74010100		CH22_FGENES.763_3	2.47	
	AL050345	Hs.227637	hypothetical protein	2.47	
	AA908609		EST singleton (not in UniGene) with exon	2.47	
333216			CH22_FGENES.104_8	2.46	
338593			CH22_EM:AC005500.GENSCAN.435-2	246	
333587	AW295466	Hs.232051	CH22_FGENES.205_2	2.46 2.45	
	AA554263	( INZULUU I	EST singleton (not in UniGene) with exon	2.45	
338934			CH22_DJ32110.GENSCAN.18-2	2.45	
325751			CH.14_hs gli6682474	2.45	
334137			CH22_FGENES.337_1	2.45	
333581	*140000		CH22_FGENES.200_1	2.45	
	AJ422807 AJ208577		C1q-related factor	2.44	
		Hs 157732	EST singleton (not in UniGene) with exon Homo sapiens chromosome 19; cosmid R268	2.44	2.44
337425	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1101101102	CH22_FGENES.761-1	2.44	2.77
336227			CH22 FGENES.730 2	2.44	
314657	A1015953	Hs.125265		2.44	
338529			CH22_EM:AC005500.GENSCAN.398-10	2.44	
333680	. 10000=0	11. 050004	CH22_FGENES.247_7	2.43	
	AJUUJ258 AA642917	Hs.250891		2.43	
335787	AMU4Z311		EST singleton (not in UniGene) with exon CH22_FGENES.611_3	2.43 2.43	
	A1655206	Hs.121512	ESTs; Moderately similar to kinesin like	2.43	
329382			CH.X_hs gij5868868	2.42	
334785			CH22_FGENES.432_10	2.42	
330130			CH_21_p2 g16002196	2.42	
327206	-44000		CH.01_hs gl 5867447	2.41	
	F11330	Hs.177633		2.41	
334691 327610			CH22_FGENES.420_4	2.4 2.4	
327646			CH.04_hs gij5867868 CH.04_hs gij5867894	24	
337093			CH22_FGENES.465-18	2.4	
335081			CH22_FGENES.488_4	24	
333576			CH22_FGENES.193_2	2.4	
337604			CH22_C20H12.GENSCAN.16-5	2.4	
329879			CH.15_p2 gij6466518	2.4	
328444			CH.07_hs gij5868420	2.39	
335700 331 <i>2</i> 55	741009	Hs.21446	CH22_FGENES.598_1 ESTs; Weakly similar to HYPOTHETICAL PR	2.39 O	2.39
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207007			OLLOO 1 TERCRATO	0.00
327927			CH.06_hs gf[5868173	2.39
334354	41000000		CH22_FGENES.377_1	2.39
	AI689279	11. 000000	EST singleton (not in UniGene) with exon	2.39
333648	AW499648	MS.233/5U		2.39
	AICCOCCO	11- 474400	CH22_FGENES.237_2	2.38
338336	Al653893	MS.1/4463	ESTs; Weakly similar to alpha3b subunit	2.38 2.38
	Manne		CH22_EM:AC005500.GENSCAN.310-8	
	H40976		EST singleton (not in UniGene) with exon	2.38 2.38
334935	AA617786		EST singleton (not in UniGene) with exon	2.38
	AW170057	Un 422470	CH22_FGENES.464_3	2.38
	D49490	Hs.76901		2.38
	Al302236	N3.7030 I	for protein disulfide isomerase-related EST singleton (not in UniGene) with exon	2.38
338911	ANUZZUU		CH22 DJ32110.GENSCAN.11-3	2.38
	T79532	He 225725	ESTs; Moderately similar to CGI-101 prot	2.37
336878	110002	المحصاص	CH22_FGENES.318-5	2.37
338140			CH22_EM:AC005500.GENSCAN.203-6	2.37
	Al383878	Hs.225588		2.37
	AA523976	1 10.122000	EST singleton (not in UniGene) with exon	2.37
334091			CH22_FGENES.327_47	2.37
336328			CH22_FGENES.812_7	2.37
325310			CH.11_hs gij5868864	2.37
338043			CH22 EM:AC005500.GENSCAN.153-2	2.37
307090	Al161024		EST singleton (not in UniGene) with exon	2.37
335768			CH22_FGENES.607_2	2.37
334969			CH22_FGENES.466_2	2.37
333640			CH22_FGENES.230_2	2.36
330002			CH.16_p2 gij6623963	2.36
338829			CH22_DJ246D7.GENSCAN.5-12	2.36
323808	AW250114		EST cluster (not in UniGene)	2.36
327755			CH.05_hs gij5867955	2.35
	AA975039		EST singleton (not in UniGene) with exon	2.35
336481			CH22_FGENES.830_1	2.35
335163			CH22_FGENES.502_7	2.35
	AL137357		EST cluster (not in UniGene)	2.35
337345			CH22_FGENES.723-1	2.35
334625	41070000		CH22_FGENES.414_3	2.35
	A1878933		EST cluster (not in UniGene)	2.35
334915			CH22_FGENES.457_4	2.35
336295	N46402	Hs.14570	CH22_FGENES.787_1 ESTs	2.35 2.35
338491	1440402	ns. 14070	CH22_EM:AC005500.GENSCAN.385-2	2.35
335517			CH22_FGENES.571_34	2.34
	X90872	Hs.75854	SULT1C sulfotransferase	2.34
	Al263102	Hs.145596		2.34
	N49967	Hs.46624		2.34
334396		,,_,,,	CH22_FGENES.381_2	2.34
332993			CH22_FGENES.57_2	2.34
327487			CH.02_hs glj5867785	2.34
335920			CH22_FGENES.636_16	2.33
336463			CH22_FGENES.829_22	2.33
319000	Z44318		EST cluster (not in UniGene)	2.33
332992			CH22_FGENES.57_1	2.33
332920			CH22_FGENES.37_6	2.33
337590	,		CH22_C20H12.GENSCAN.6-5	2.33
327059			CH.21_hs gl[6531965	2.33
334399			CH22_FGENES.382_5	2.33
	AA837754		EST cluster (not in UniGene) with exon h	2.32
327430			CH.02_hs glj5867754	2.32
326808	A14045222		CH.20_hs glj6682504	2.32
	AW015373		EST singleton (not in UniGene) with exon	2.32
329779	M25809	Hs.64173	CH.14_p2 gij6002090 ATPase; H+ transporting; lysosomal (vacu	2.32 2.31
330080	INAJOUJ	110,071/3	CH.19_p2 gi6015314	2.31
334342			CH22_FGENES.375_20	2.31
336306			CH22_FGENES.793_5	2.31
336400			CH22_FGENES.823_15	2.31
	AA323714		EST cluster (not in UniGene)	2.31
334496			CH22_FGENES.397_12	2.31
336075			CH22_FGENES.687_1	2.31
335566			CH22_FGENES.580_1	2.31
337657			CH22_EM:AC000097.GENSCAN.32-9	231
327816			CH.05_hs gij5867968	23
	A1672480		EST singleton (not in UniGene) with exon	2.3
330112			CH.19_p2 gi]6015238	2.3
			EST singleton (not in UniGene) with exon	2.3
304465	AA421948		CO. SINGEON (INCREDINGUE) MINI DON	2

2.28

	A1560854		EST singleton (not in UniGene) with exon	2.3
328171			CH.06 hs qli5868071	2.3
32827			CH.06_hs q16552415	23
328803			CHL07_hs g15004475	23
330063				
			CH.19_p2g#6165044	2.29
	H11643		EST cluster (not in UniGene)	2.29
328974			CH.09_hs gij5868520	2.29
333859	l		CH22_FGENES.290_18	2.29
326253			CH.17_hs gl[5867263	2.29
325703			CH.14_hs gli5867028	2.29
338925				
328557			CH22_DJ32110.GENSCAN.14-3	2.29
			CH.07_hs gl 5868489	2.29
337244			CH22_FGENES.646-8	2.29
314770	Al732722	Hs.187694		2.29
324560	AW502208	1	EST cluster (not in UniGene)	2.29
310603	AW376860	He 156308	FSTe	2.29
337363			CH22_FGENES.733-2	_
		U- 000007	COT-111-12-12-12-12-12-12-12-12-12-12-12-12	2.29
	Al440174	MS.ZZ05U/	EST; Wealty similar to GUANINE NUCLEOT	
	Al961962		EST singleton (not in UniGene) with exon	2.28
337455			CH22_FGENES.777-1	2.28
327605			CH.03_hs gij6004463	2.28
301611	W22172	Hs.59038	ESTs	2.28
317222	Al206964	Hs 130051		2.28
338278			CH22_EM:AC005500.GENSCAN,290-3	
337291				2.28
			CH22_FGENES.673-2	2.27
337913			CH22_EM:AC005500.GENSCAN.59-10	2 <i>.2</i> 7
	AA971973		EST singleton (not in UniGene) with exon	2.27
332947			CH22_FGENES.47_10	2.27
321763	W01148		EST cluster (not in UniGene)	2.27
304424	AA293494		EST singleton (not in UniGene) with exon	2.27
	T64737		EST cluster (not in UniGene) with exon h	
326943	101101			2.27
	D44400	11-000404	CH.21_hs gip6004446	2.27
	R14439	Hs.209194		2 <i>.2</i> 7
325480			CH.12_hs gij5866957	2.27
327743			CH.05_hs glj5867944	2.27
333221			CH22_FGENES.105_1	2.26
336498			CH22_FGENES.833_3	2.26
	H84421			
334191	1101121		EST cluster (not in UniGene)	2.26
			CH22_FGENES.352_6	2.26
327089			CH.21_hs gli6531965	2.26
	F18939	Hs.153827		2.26
	R08577		EST singleton (not in UniGene) with exon	2.25
324700	AW504745	Hs.103913	ESTs; Moderately similar to IIII ALU SUB	2.25
330637	X86371	Hs.95659	lethal giant larvae (Drosophila) homolog	2.25
	AJ302103		EST singleton (not in UniGene) with exon	2.25
336985	TOOLIGO		CH22_FGENES.402-6	
				2.25
334425	A167700 40		CH22_FGENES.384_13	2.25
	AI078042			2.25
	AW205946			2.25
305809	AA853998	Hs.124580	EST	2.25
331334	AA284858	Hs.89134	ESTs	2.25
317131	Ai991125	Hs.189109	FSTs	2.25
334216			CH22_FGENES.358_1	2.24
330330			OLIOS A PERSONA	
			CH.08_p2 gip6/026/	2.24
326923			CH.21 hs gli6456782	2.24
333774			CH22_FGENES.272_5	2.24
	AA443061	HS.202520		2.24
338551			CH22_EM:AC005500.GENSCAN.413-2	2.24
306716	AI024916	Hs.251354	ESTs	2.24
337689			CH22_EM:AC000097.GENSCAN.77-5	2.24
	Al192520	Hs.147178		2.23
334617			CH22_FGENES.411_16	2.23
336890				
			CH22_FGENES.326-10	2.23
334495			CH22_FGENES.397_10	2.23
327301			CH.01_hs gi[5867493	2.23
337856			CH22_EM:AC005500.GENSCAN.41-3	2.23
307072	Al150424	Hs.146817	EST	2.23
	M85247		H.sapiens dopamine D1A receptor gene, co	2.22
325943			CH.16_hs gij5867138	2.22
338947				
	A18407264	Un 424000	CH22_DJ32H0.GENSCAN.21-4	2.22
	AW197361	115.131300	EOIS	2.22
	M33493	ms.164504	tryptase; alpha	2.22
333195			CH22_FGENES.98_17	2.22
304837	AA587139		EST singleton (not in UniGene) with exon	2.22
307602		Hs.231239	EST	2.22
337078			CH22_FGENES.457-1	2.22
JU, J, J			~ ~~~ OF #	

173

335862			CH22_FGENES.629_7	2.22
301979 335668	L28168	Hs.121495	potassium voltage-gated channet, Isk-rel	2.22 2.22
	AA639618		CH22_FGENES,590_19 EST singleton (not in UniGene) with exon	2.21
329034	70 2000 10		CH.X_hs gl]5868561	2.21
	Al131241	Hs.143234		2.21
328058 335513			CH.06_hs gij5902482 CH22_FGENES.571_28	2.21 2.21
	AA004699	Hs.150580	putative translation initiation factor	2.21
331427	H54764	Hs.237339	EST	2.21
338973 336723			CH22_DJ32I10.GENSCAN.27-6 CH22_FGENES.85-3	2.2 2.2
327290			CH.01_hs gij5867483	2.2
337240			CH22_FGENES.644-1	2.2
	AA926818	11. 400000	EST singleton (not in UniGene) with exon	2.2
334517	AA868464	HS.126263	ESTs; Highly similar to FIBRILLARIN [H.s CH22_FGENES.399_7	2.2 2.2
334189			CH22_FGENES.352_4	2.2
335199			CH22_FGENES.508_8	2.2
333705	A 4045704		CH22_FGENES.250_19	2.2
	AA845324 AA316069		EST singleton (not in UniGene) with exon EST cluster (not in UniGene) with exon h	2.2 2.2
	W85694	Hs.118335		2.2
329158			CH.X_hs gi 5868687	2.2
337551 328792			CH22_FGENES.847-8	2.2 2.2
	AW502711		CH.07_hs gij5868309 EST cluster (not in UniGene) with exon h	2.19
	AW502466		EST cluster (not in UniGene)	2.19
	Z45529	Hs.92030	ESTs	2.19
333773 337906			CH22_FGENES.272_4 CH22_EM:AC005500.GENSCAN.56-19	2.19 2.19
327129			CH.21_hs g16531976	2.19
	AA826544		EST singleton (not in UniGene) with exon	2.19
335595	* * 0 4 0 0 0 0	11- 45440	CH22_FGENES.581_34	2.19
323646 328368	AA310926	HS.154412	CH.07_hs gl 5868388	2.19 2.19
325802			CH.14_hs gi[6552451	2.19
337167	•		CH22_FGENES.562-27	2.19
	AA635756	15.404500	EST singleton (not in UniGene) with exon	2.18
332790	AWZ400Z4	ns.121590	ESTs; Weakly similar to ZINC FINGER PROT CH22_FGENES.2_4	2.18
336750			CH22_FGENES.128-4	2.18
	Al520706	Hs.171012		2.18
329798 327012			CH.14_p2 gij6523160 CH.21_hs gij5867664	2.18 2.18
	AA506638		EST singleton (not in UniGene) with exon	2.18
335351			CH22_FGENES.539_4	2.18
	AJ354717	Hs.223908		2.18
332791 333022			CH22_FGENES.3_1 CH22_FGENES.65_1	2.17 2.17
	AI458973	Hs.170422		2.17
	AA853440		EST cluster (not in UniGene)	2.17
325275 328338			CH.11_hs gi[5866902 CH.07_hs gi[5868377	2.17 2.17
333063			CH22_FGENES.75_6	2.17
308895	AI858423		EST singleton (not in UniGene) with exon	2.17
338685			CH22_EM:AC005500.GENSCAN.472-4	2.16
325655	H49570	He 10807A	CH.14_hs gl[5867007 ESTs; Weakly similar to CEREBELLIN 1 PRE	2.16
337216	111,00.0		CH22_FGENES.613-10	2.16
335660			CH22_FGENES.590_11	2.16
337145			CH22_FGENES.542-2	2.16
335753 301766	R02224		CH22_FGENES.604_2 EST cluster (not in UniGene) with exan h	2.16 2.16
	Al953998	Hs.152510	ESTs; Weakly similar to L-SERINE DEHYDRA	1
	Al949701	Hs.210589	ESTs	2.16
	Al167606 Al874402	Hs.170810	EST singleton (not in UniGene) with exon	2.16
337989	700144UZ	119'11/01/		2.16 2.16
326263			CH.17_hs gij5867264	2.16
	W21298	Un norsero	EST cluster (not in UniGene)	2.16
	Y17456 Al929150	Hs.22/150 Hs.241496	Homo saplens LSFR2 gene; last exon ESTs	2.16 2.16
	Al241753		ribosomal protein S6	2.16
335662			CH22_FGENES.590_13	2.15
000400	AA092932	Hs.12570	tubulin-specific chaperone d	2.15

2.16

329273			CHX_hs gij5868762	2.15	
339383			CH22_BA232E17.GENSCAN.3-20	2.15	
332795			CH22_FGENES.5_1	2.15	
335227	•		CH22_FGENES.513_13		
326925				2.15	
			CH21_hsg16456782	2.15	
332403	AA424199	Hs.106529	ESTs; Highly similar to CGI-65 protein [	2.15	
317786	AI859605	Hs.155686	ESTs	2.15	
326582			CH.19_hs gl[5867318	2.15	
336494					
			CH22_FGENES.832_11	2.15	
329656			CH.14_p2g46448516	2.15	
307581	Al284415		EST singleton (not in UniGene) with exon	2.15	
335670	•		CH22_FGENES.591_2	2.14	
332452	AAOAO369	Hs 11170	SYT Interacting protein	214	
300307	ALAMONDAS	Un 450440	Interest and the land and the AD O		
303301	AVV0/9943	HS. 100110	Immunoglobulin kappa variable 1D-8	2.14	
30842/	A1652677	Hs.195055	EST	2.14	
322027	NM_00455	1	EST cluster (not in UniGene)	2.14	
301693	Z45023		EST cluster (not in UniGene) with exon h	2.14	
334308			CH22_FGENES.373_11		
		Ll. 424007		2.14	
	AW134518	LI2: 12:1001		2.13	
338495			CH22_EM:AC005500.GENSCAN,387-1	2.13	
329600			CH.10_p2 gij3962481	2.13	
307980	AJ431696		EST singleton (not in UniGene) with exon	2.13	
337260	70 10 1000				
			CH22_FGENES.652-15	2.13	
	AA527887		EST singleton (not in UniGene) with exon	2.13	
303141	AF195951		EST cluster (not in UniGene) with exon h	213	
327957			CH.06_hs glf5868210	2.13	
334317					
			CH22_FGENES.374_1	2.13	
	AF011407	· .	EST cluster (not in UniGene) with exon h	2.13	
333806			CH22_FGENES.278_2	2.13	
329947			CH.16_p2 gii5540101	2.13	
	AW182523				
			EST singleton (not in UniGene) with exon	2.13	
<i>3221</i> 90	AI/002/3	HS.122162	ESTs; Weakly similar to KIAA0557 protein	2.13	
337706			CH22_EM:AC000097.GENSCAN.87-11	2.13	
306894	Al092731		EST singleton (not in UniGene) with exon	2.13	
325530					
	A1 44000T	11-044-00	CH.12_hs gl[6525289	2.12	
32108/	AL11022/	HS.241533	Homo sepiens mRNA; cDNA DXFZp434J194	(tr	2.12
309853	AW298169	Hs.57553	tousted-like kinase 2	2.12	
326822			CH.20_hs gij6117831	2.12	
328776					
			CH.07_hs glp868309	2.12	
335112			CH22_FGENES.494_20	2.12	
334564			CH22_FGENES.405_4	2.12	
333455			CH22_FGENES.157_4	2.12	
	R55044	Hs.124130			
	100011	16.127150		2.12	
334221			CH22_FGENES.360_1	2.12	
331374	AA442134	Hs.70573	ESTs; Weakly similar to HINT PROTEIN [H.	2.12	
304473	AA428343	Hs.140	immunoglobulin gamma 3 (Gm marker)	2.12	
328907			CH.08_hs gij5868493	2.12	
	R05539	Hs.108738			
	K00009	US' 100130		2.12	
333676			CH22_FGENES.247_3	2.12	
324767	AA630931	Hs.34348	Homo sapiens mRNA; cDNA DKFZp434P02	35 (f	2.12
318585	Z43405		EST cluster (not in UniGene)	2.12	
	AA251192	Hs 177708		2.12	
329553		12.111100			
			CH.10_p2 gf[3962492	2.12	
336910			CH22_FGENES.343-6	2.12	
326959			CH.21_hs gii6469836	2.12	
305417	AA725228		EST singleton (not in UniGene) with exon	2.11	
		He 226402	ESTs; Wealty similar to mitochondrial di	2.11	
		INCLUTUL			
326935			CH.21_hs glj6004446	2.11	
335176			CH22_FGENES.504_6	2.11	
337210			CH22_FGENES.603-5	2.11	
311284	AW027025	Hs. 239262		2.11	
330240					
			CH.05_p2 gl[6671858	2.11	
327463			CH.02_hs gi[6004455	211	
332938			CH22_FGENES.A1_3	2.11	
332785			CH22 FGENES.1 1	2.11	
	AI358105	Hs.123164		21	
	AA826701		EST singleton (not in UniGene) with exon	21	
	AW003150	Hs.240165	ESTS	2.1	
302753			EST cluster (not in UniGene) with exon h	2.1	
334635	M74299			<del></del> •	
	M74299			91	
			CH22_FGENES.417_2	2.1	
319447	AA456745		CH22_FGENES.417_2 EST cluster (not in UniGene)	2.1	
319447 301204			CH22_FGENES.417_2 EST cluster (not in UniGene)		
319447	AA456745	Hs.239994	CH22_FGENES.417_2 EST cluster (not in UniGene) ESTs	21 21	
319447 301204 333950	AA456745	Hs.239994	CH22_FGENES.417_2 EST duster (not in UniGene) ESTs CH22_FGENES.303_6	2.1 2.1 2.1	
319447 301204 333950 325947	AA456745	Hs.239994	CH22_FGENES.417_2 EST duster (not in UniGene) ESTs CH22_FGENES.303_6 CH_16_hs gij5867138	21 21 21 21	
319447 301204 333950 325947 337683	AA456745	Hs.239994	CH22_FGENES.417_2 EST cluster (not in UniGene) ESTs CH22_FGENES.303_6 CH.16_hs gl\$567138 CH22_EMAC000097.GENSCAN.76-1	21 21 21 21 21	
319447 301204 333950 325947	AA456745	Hs.239994	CH22_FGENES.417_2 EST duster (not in UniGene) ESTs CH22_FGENES.303_6 CH_16_hs gij5867138	21 21 21 21	

336655			CH22 FGENES.34-3	2.1
336596			CH22_FGENES.163_2	21
	M13755	Hs.833	Interferon-stimulated protein; 15 kDa	2.1
		Hs.125143		2.09
	AA524725	Hs.162108		2.09
336650			CH22_FGENES.29-6	2.09
339026	AUDOTO	U- 444000	CH22_DA59H18.GENSCAN.22-6	2.09 2.09
	AW297357 Al910263	Hs.114606	EST cluster (not in UniGene)	2.09
338857	AIS IUZUS		CH22_DJ32H0.GENSCAN.1-1	2.09
335374			CH22_FGENES.543_12	2.09
308766	Al808510		EST singleton (not in UniGene) with exon	2.09
_	N48584	Hs.6168	KIAA0703 gene product	2.09
337853			CH22_EM:AC005500.GENSCAN.37-1	2.09
	NM_002991 Al337440	1 Hs.169375	EST cluster (not in UniGene) with exon h	2.09 2.09
	Z44049		ESTS: Weakly similar to cDNA EST EMBL:D3	
	Al142078	Hs.135562	•	2.09
333280			CH22_FGENES.126_2	2.09
333518			CH22_FGENES.173_3	2.09
337199			CH22_FGENES.583-11	2.09
337819		11-00042	CH22_EM:AC005500.GENSCAN.13-9	2.08
	AA21445U AA354452	Hs.250913	ESTs; Weakly similar to WD40 protein Cla	2.08 2.08
336028	MAJOHIJZ	112.03010	CH22_FGENES.672_1	2.08
	Al394673	Hs.254030		2.08
	Al243573		EST singleton (not in UniGene) with exon	2.08
326444			CH.19_hs gi 5867385	2.08
	A1345597	Hs.254727		2.08
337633			CH22_C20H12.GENSCAN.32-1	2.08
336008 339030			CH22_FGENES.668_6 CH22_DA59H18.GENSCAN.24-1	2.08 2.08
333952			CH22_FGENES.303_8	2.08
329149			CH.X_hs gij5868685	2.08
335192			CH22_FGENES.507_7	2.08
	Al557713		ribosomal protein; large; P1	2.08
	M94172		calcium channel; voltage-dependent; L ty	2.08
		Hs.97312		2.07
	AJ003669 D00749	Hs.246171 Hs.36972	CD7 antigen (p41)	2.07 2.07
327291	D00/43	115.50372	CH.01_hs gl[5867483	2.07
	AW069807	Hs.247094	ESTs; Moderately similar to IIII ALU SUB	2.07
317917	Al143593	Hs.129419		2.07
328674			CH.07_hs gl 5868254	2.07
338654	A 1040E00	No 404729	CH22_EM:AC005500.GENSCAN.460-55	2.07 2.07
320828 337896	AJU 12090	NS. 1947 20	hexose-6-phosphate dehydrogenase (glucos CH22 ENtAC005500.GENSCAN.56-3	2.07
335310			CH22_FGENES.532_3	2.07
	AW074835	Hs.145223		2.07
	AL046182		EST cluster (not in UniGene) with exon h	2.07
328848			CH.07_hs gij6381921	2.07
•	C18060		EST duster (not in UniGene)	2.07
335352			CH22_FGENES.539_5 CH22_BA354112.GENSCAN.22-15	2.07 2.06
339316 335873			CH22_FGENES.631_1	2.06
335261			CH22_FGENES.520_2	2.06
322032	AL079807		EST cluster (not in UniGene)	2.06
	Al809301		EST singleton (not in UniGene) with exon	2.06
	Al252661	Hs.145224 Hs.235534		2.06 2.06
	R36212 T74062	NS.200004	EST cluster (not in UniGene)	2.06
334642	11-1002		CH22_FGENES.417_9	2.05
335767			CH22_FGENES.607_1	2.06
336159			CH22_FGENES.707_3	2.08
336358	•		CH22_FGENES.818_1	2.06
334687			CH22_FGENES.419_12	2.08
339389			CH22_BA232E17.GENSCAN.4-7 CH22_FGENES.635_6	2.06 2.06
335898 328847			CH.07_hs gij6381920	2.08
	W91884		EST cluster (not in UniGene)	2.08
	Al374993	Hs.159611		2.06
339211			CH22_FF113D11.GENSCAN.6-6	2.06
333860		11	CH22_FGENES.290_19	2.06
308952	AI868157	Hs.224226		2.08
305471	AA743947 AA991438	Hs.233293	EST singleton (not in UniGene) with exon	2.06 2.06
300019	ALMO LADO			

302962	Al693349	Hs.228981	EST	2.06
332446	i aa112799	Hs.238756	ESTs; Weakly similar to unknown (H.sapie	2.06
334972			CH22_FGENES.468_2	2.05
330196			CH.05_p2 gB6165140	205
	AA579795			
2007704	Maiala		EST singlation (not in UniGena) with exon	2.05
303/20	AVVZ4852	1 HS.195188	glyceraldehyde-3-phosphate dehydrogenase	2.05
333939			CH22_FGENES.301_5	2.05
304836	AA587008		EST singleton (not in UniGene) with exon	2.05
	AA324163		EST cluster (not in UniGene) with exon h	2.05
		•	COT checken (not at the black of white exact it	
	A)650714		EST singleton (not in UniGene) with exon	2.05
	AA176914		EST singleton (not in UniGene) with exon	2.05
333141			CH22 FGENES.85 1	2.05
310573	AW292180	Hs.156142	FSTs	2.05
337565				
			CH22_C65E1.GENSCAN.1-11	2.05
	AA084082		EST singleton (not in UniGene) with exon	2.05
326624			CH.20_hs glj5867553	2.05
326443			CH.19_hs gij5867385	2.04
339012			CH22_DA59H18.GENSCAN,19-2	2.04
337384			CH22_FGENES.745-1	2.04
	179623	Un 444707		
		Hs.111787		2.04
	AW501525	)	EST cluster (not in UniGene) with exon h	2.04
336046			CH22_FGENES.679_8	2.04
301770	R05887		EST cluster (not in UniGene) with exam h	2.04
326726			CH.20_hs gl[5867597	2.04
	M11186	Un 442040	madaalaa amaan /aan-ahaala B	
	W11190	ris. 113216	axytocin; prepro-(neurophysin I)	2.04
332956			CH22_FGENES.48_13	2.04
300021	M97935		AFFX controt: STAT1	2.04
306872	Al086920		EST singleton (not in UniGene) with exon	2.03
	L03151		EST cluster (not in UniGene) with exon h	203
338507	200131			
			CH22_EM:AC005500.GENSCAN.390-11	2.03
334020			CH22_FGENES.317_1	2.03
333870			CH22_FGENES.291_3	2.03
330552	U40223	Hs.248157	pyrimidinergic receptor P2Y; G-protein c	2.03
335486			CH22_FGENES.570_18	2.03
339374				
			CH22_BA232E17.GENSCAN.2-5	2.03
328384			CH.07_hs gij5868392	2.03
334690			CH22_FGENES.420_3	2.03
310318	AI733942	Hs.145338	ESTs	2.03
325893			CH.16_hs gij5867088	2.03
	AA435543	He 479470	ESTs; Weakly similar to DUAL SPECIFICITY	2.00
200204	7770010	115.170170		
329784			CH.14_p2 gij5912597	2.03
335087			CH22_FGENES.488_11	2.03
310582	Al336563	Hs.254585	ESTs	2.03
332611	R06751	Hs.1600	chaperonin containing TCP1; subunit 5 (e	2.03
339258			CH22_BA354H2.GENSCAN.8-3	2.03
336851				
	A A 700004	14-0004	CH22_FGENES.274-1	2.03
	AA780664	MS.8/34	ESTs; Moderately similar to IIII ALU CLA	2.03
330364			CHX_p2 g\$3126882	2.03
	AL137619		EST cluster (not in UniGene) with exon h	2.03
317349	AA923657	Hs.126359		2.03
309869	AW300314		EST singleton (not in UniGene) with exon	2.03
333422			CH22_FGENES.147_2	
				2.03
325233			CH.10_hs gi[6381943	2.03
330586	U//968	Hs.79564	neuronal PAS domain protein 1	2.03
336725			CH22_FGENES.88-1	2.02
334157			CH22_FGENES.340_7	2.02
303357	AW006352	Hs.159643		202
328533				
	Al962817		EOT electron (net in 1/2/2 and military	2.02
	AI3020 17			2.02
327412	_			2.02
333172			CH22_FGENES.94_7	2.02
334869				2.02
	AA971465	Hs.116136	=	2.02
329394				
301736	E12420			2.02
	12120		ALICA	2.02
335591				2.02
338234			CH22_EM:AC005500.GENSCAN.260-7	2.02
334433			AL 144 MATERIAL AND A	2.02
334904				202
~~~~	V1030333			a.u. I
240442		113,13//14	ESTs; Wealty similar to NEUR ACETYLCHOL	
318443	AMANA			2.01
300151	A1243445	Hs.189654		
300151 310348	A1243445 A1478563			2.01
300151 310348	A1243445 A1478563	Hs.189654	ESTS	2.01
300151 310348 310898	A1243445 A1478563	Hs.189654 Hs.145519 Hs.165742	ESTS	2.01 2.01
 300151 310348 310898 332860	A1243445 A1478563 A1439868	Hs.189654 Hs.145519 Hs.165742	ESTS ESTS CH22_FGENES.27_3	2.01 2.01 2.01
 300151 310348 310898 332860 301699	Al243445 Al478563 Al439868 Al879117	Hs.189654 Hs.145519 Hs.165742	ESTs ESTs CH22_FGENES.27_3 EST duster (not in UniGene) with exon h	2.01 2.01 2.01 2.01
 300151 310348 310898 332860	Al243445 Al478563 Al439868 Al879117	Hs.189654 Hs.145519 Hs.165742	ESTs ESTs CH22_FGENES.27_3 EST duster (not in UniGene) with exon h	2.01 2.01 2.01

2.02

## PCT/US02/06001

327994			CH.06_hs gij5868218	2.01	
315613	AW137420	Hs.192311	ESTs	2.01	
335356			CH22_FGENES.541_3	2.01	
334028			CH22_FGENES.318_7	2.01	
335277		•	CH22_FGENES.523_3	2,01	
308657	A1749855	Hs.236497	EST; Wealty similar to GLANDULAR KALLII	Œ	2.01
305913	AA876109		EST singleton (not in UniGene) with exon	2.01	
323681	AW247730	Hs.102548	glucocorticold receptor DNA binding fact	2.01	
333533			CH22_FGENES.175_20	2.01	
328753			CH.07_hs gl 5868298	2.01	
302397	L01694	Hs.211523	guanine nucleotide binding protein (G pr	2.01	
304643	AA526588		EST singleton (not in UniGene) with exon	2.01	
333085			CH22_FGENES.75_8	2.01	
316192	AA904441	Hs.221286	ESTs	2	
302533	L36149	Hs.248116	chemokine (C motif) XC receptor 1	2	
312988	AA813689	Hs.123436	ESTs	2	
333612			CH22_FGENES.217_7	2	
333615			CH22_FGENES.217_10	2	
316085	AI027959	Hs.132300	ESTs	2 .	
337936			CH22_EM:AC005500.GENSCAN.85-7	2	
330972	H18467	Hs.118983	ESTs; Weakly similar to diaphanous 1 [H.	2	

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Table 20: B survivor vs Mets – Up in Mets

Pkey: Unique Eos probeset identifier number

ExAccı: Exemplar Accession number, Genbank accession number

Unique Title: Unique gene title

Pitey	Ex Acen	UniG_ID	Complete Title	Ratio BS/Met
316625	AA780307	Hs.122156	ESTs	0.28
316076	AW297895	Hs.116424	ESTs	0.3
315943	AA699756	Hs.117335	ESTs	0.38
317198	AI810384	Hs.128025	ESTs	0.38
320082	AA487678	Hs.189738	ESTs	0.39
313510	Al147291	Hs.154006	ESTs	0.39
323683	A1380045	Hs.225033	ESTs	0.39
	AW402877			0.4
310264	AI915771	Hs.148867	ESTs	0.4
	AW276866		ESTs	0.41
	W86995		ESTs	0.42
	H73183			0.43
	AW444619			0.43
	AI823969			0.44
	AA809844		EST cluster (not in UniGene)	0.44
	AA825819	Hs.136952	ESTs	0.44
337522			CH22_FGENES.819-1	0.45
	AA574312			0.45
	AA551104			0.46
	Al026836	Hs.114689		0.47
	AA431441		EST singleton (not in UniGene) with exon	0.47
	AJ422367	Hs.163533		0.47
	AA987294		EST singleton (not in UniGene) with exon	
329086			CH.X_hs gi[5868604	0.47
	AA167566			0.47
	AJ674481			0.47
	W92391	Hs.198222	ESTs; Wealdy similar to C2H2-type zinc f	0.48
	AW207535		ESTs	0.48
	AA904908		ESTS	0.48
	AL038765			0.49
	Al371390		ESIS	0.49
	AA324992		ESTS	0.49
	AW167439		ESTS	0.49
	AA551196			0.49
	A1140799			0.5
	AA454595		ESTS	0.5
	Al623817			0.5
3003/5	Al283548	ns.149068	ESIS	0.5

## TABLE 1-20A

Table 1-20A, shows the accession numbers for those pkeys lacking unigeneID's for Tables 1-20. For each probeset we have listed the gene cluster number from which the oligonucleotides were designed. Gene clusters were compiled using sequences derived from Genbank ESTs and mRNAs. These sequences were clustered based on sequence similarity using Clustering and Alignment Tools (DoubleTwist, Oakland California). The Genbank accession numbers for sequences comprising each cluster are listed in the "Accession" column.

Pkey:

Unique Eos probeset identifier number

CAT number: Accession: Gene cluster number Genbank accession numbers

Pkey CAT Number Accesssion

108446 112224\_1 108474 116896\_1 100835 10605\_34 AA085383 AA126091 AA074174 AA075373 AA079120 AA070831 AA075978 AA075372 AA128503

AA115179 AA079667 AA115897 AA079771

BE259039 W29128 AW410299 X72990 BE246492 NIM\_005243 X66899 AI909006 AW248151 AL031186 AA012966 BEZ73549
BE311429 BE253102 Y07848 BE538102 BE256683 BE261240 BE312156 BE618412 BE257322 BE620446 AW806629
AA376777 AA325384 BE256808 BE251039 BE257878 BE275352 AA357169 AW403552 AA204995 AA093259 W95953
BE256279 BE336683 BE256266 BE251266 AA380754 BE294942 AA380941 AA380999 BE297164 BE249995 BE294719
BE295372 AIZ70673 BE305132 BE565752 BE295357 AI625421 BE263980 AA057505 AA020915 BE266318 BE206948
A474020 BE296420 BE297374 BE408545 BE019366 BE407372 BE266180 BE279437 R58233 T19567 BE300738 AW381179
AA357571 AW361285 AA436908 AA301019 AA301022 N20202 BE408777 BE548638 BE167415 AA071260 BE088429
BE280092 W23117 T19568 R51681 AW402216 W22784 BE185607 AH57224 BE544120 AL134874 S72620 AA375079 D51319
AW818280 BE514688 AW853024 BE563744 AA300469 T07592 BE622190 BE272834 W21781 BE315450 BE542367 BE393120
AA988441 H55137 BE562266 BE622502 BE395960 AA329733 AA332348 Al768317 AA456866 Al497832 AW878437 AA857042
U18018 BE621418 AB18790 AI949507 BE397693 AI885545 AI858854 AI355147 BE169028 S62138 AW732191 AA856691
BE266060 X71427 BE268557 AF096890 AW001288 AI799634 AI823498 AA071346 BE547662 BE251446 AI564543 BE559759
U35622 BE314249 BE264915 AI638591 AI538385 AW090025 BE384754 AI888689 AW778800 AI925273 AA075797 AW949130
AV6600275 AW438697 AI587137 AI524121 AA806249 AW628247 AA808241 AI244388 AI761125 AW117672 AA911782
AI129250 AA654447 H55291 BE258050 BE206162 W95867 AA857187 AI871378 AI660103 AW103827 AI220929 AW149949
BE465661 AI302857 AW168841 D82190 AW249814 AI623432 AI687358 AW951077 R51592 W60458 AI092863 AW474693
D12765 AI911646 D82208 D82187 AW074031 AI358527 AW338497 AA970893 AW07276 C76240 BE886 BA2444 AIA64940

AW148763 Al863056 AA548656 BE250325 Al016994 Al864005 BE046122 Al497746 C75340 R58896 D82141 AW168240 C19048 AI741090 D29465 AI222365 AA948288 AI583522 AW572212 AI091290 AA582727 AA579897 AA570629 W60883 AW516989 AL038160 AA577334 Al865872 AA994043 AA922583 AA464778 AA209178 Al829479 Al370235 BE246529 AA384177 AA456255 AKS99730 WG0654 AL035744 AA862042 R32756 AK86886 AA993087 AL289479 AA627840 AA464184 Al619503 R32755 AW075358 Al432315 AA457024 AA020865 R92132 AA454629 AA746059 AA454643 AA456240 AA826984 BE163738 AIB06470 AI991074 AI802560 AA587095 AA558714 AA968521 N87780 AI538246 N71794 AV661738 AI368903 AA362570 Al989445 Al674962 S75762 BE245204 AA975296 D20123 AW005704 AA693328 AA582270 Al918474 AW205707 Al696299 AA220990 AA101538 T29030 H27201 AW262526 Al610530 AA126840 AA126790 X92120 AW367868 BE299644 BE299451 AA476561 BE300044 AA134363 BE295222 AA307504 N42337 AA319098 N39502 AW964461 N57241 BE299049 N86332 R51156 AA085859 T75212 AA133939 AA147129 AA156161 BE543953 BE538848 AA133676 BE299745 AA135050 AA218535 AW406401 AW411287 BE410528 C01410 NM\_004083 BE314959 AA836413 AA085862 AW024370 AA471059 AW467508 AA001025 AI828231 AA633221 T95517 AA147038 AA476447 AW027012 AW078627 BE513200 Al192297 AA886279 AW081806 AA316185 AA010506 Al269929 W93139 AI682935 AA609555 AA378028 AI093877 AA999997 AA730698 Al143923 AW575315 AA690550 AA494353 AW576601 Al796336 AA626130 AA609207 AL539618 Al088539 Al089090 AA6255 AA632978 AA015892 AW204713 AA156495 AA824613 AA133630 N29826 AA527476 AI633352 T27908 AA134364 AA133940 AW043601 H37775 AA772375 AA057871 AA047888 AA054225 H86568 AA001511 H25718 AW189507 AA165589 AA054433 H85549 AA165486 AA058972 AA454911 AA464064 AA493802 AA428253 R85508 AW302469 AI611812 BE162582 F11073 T95518 N26811 AI783929 H40669 AW611745 AI658803 R51042 R45276 AA528386 AA782875 AW880218 AL138391 AA314536 AW949338 AA149466 AA149552 Al346513 AA216776 BE349131 AW007654 Al141803 AA622688 Al185131 AW057635 AA101539 AA627986 HZ7202 AI536847 W93084 AI973148 AI246788 AW572108 AI469414 AA454835 AA612707 AA430746 AI084991 AA010400 AA856636 AA463928 AI248310 R07170 AA834033 D12244 AI655670 AA054350 AA639480 AI702067

100643 3931\_1

NM\_005032 M34427 AA332167 AW409711 AL119718 BE297581 BE299855 AA082284 AA226855 AA149568 AW391953 M22299 BE163594 AW847881 AW366993 BE142871 AW847885 AW604137 AW847753 AW847886 AW376442 U48350 AW607478 AA373011 AA334080 BE294177 AL121355 AA302236 BE540666 BE170588 AA346884 BE541512 AA226818 AA082001 AA366490 AW604122 AA205784 AW607791 BE168496 AA088497 T64373 BE165633 AW802804 AW847878 AA187408 AA088397 AI751745 AA344103 AA034463 AI906008 AA363580 AA379193 AI332642 AH43569 W25748 W52754 AA385532 AA085967 F05943 AA3641403 AA034463 AI906008 AA363580 AA379193 AI332642 AH43569 W25748 W52754 AA385532 AA085967 F05943 AA364242 AA133444 AA133477 AA029541 N48387 N83348 AA376066 AA147671 W70187 AA316255 BE174987 AA452776 AA089605 AL047776 BE162673 H39532 BE168406 AA357654 AA328728 AW813442 D57844 AW839748 AW839663 D57357 AA334536 AW268674 AW950788 AW409888 AI160544 D57821 AW664382 D25884 AI755101 AW130365 AI609094 AI984064 AI806523 AA492516 AI755258 BE157210 AA374884 AI983923 AI831088 AA706501 AI754957

100670 22023\_1

100673 21517 2

108559 41469\_9 108569 118606 1

100700 17137\_1

100734 35197\_1

100739 2738 3

117040 46956\_1 100748 41861\_1

100760 1334\_7

100779 458\_127

100787 458\_127 130872 21268 1

108641 853\_-13 100818 19604\_3

130930 2773\_1

124394 559D 5

100882 458\_127

100885 12707\_3

100896 205\_6

100898 8542 1

AIG88651 AIG88623 AI336114 N38752 T56004 AA845200 AA858377 BE157397 AW069347 AAD45366 AW316918 AW130372 A1355398 BE157396 A1751746 A1375820 AA129935 W60002 N24781 A1805924 W60009 AA044283 AA121161 A153927 AA301885 AW019944 AA133445 AA101108 AA033559 W70060 AA617751 AI986261 AI023234 D82235 AA085846 AW754181 D8203 D82100 AA147653 AA500256 D57884 AI75382 AI568050 AI146490 AW302280 AA33051 AA329188 AW572150 AW165345 AI337981 AA7378877 AA227207 AA838281 C06190 AL046997 AI217652 AI752979 AW627538 AI127171 A1440461 T64184 AA845190 AA227111 AA877394 R60962 AA505646 AA770545 A1696264 AA953747 AA904094 AA058318 D57026 T17158 AA578545 AW085082 BE148939 AW815069 BE152843 BE149068 BE149036 AW815073 AW753691 BE149040 AW815065 BE152842 BE149072 AW753692 AW815055 BE152837 BE152849 BE152840 AW815070 BE152829 BE152846 BE148972 BE149042 BE149074 AW753668 BE152832 BE152841 BE149082 BE149050 AA347261 BE152852 BE152847 RE5797 FUZ189 AA483448 AB54410 AA65375 BE152836 BE152836 BE152839 T17300 BE152844 BE152833 BE152834 AA029542 AI567601 AI362353 BE162140 AI381384 BE152851 D57038 D57043 AJ18363 AA133478 BE149051 BE149083 BE152850 BE149052 BE149084 AA886686 BE149064 BE149032 AA044093 AA129934 AA303976 BE157211 AA187291 BE152830 AA046552 BE149047 BE149079 BE149033 BE149065 BE149044 BE149076 BE149053 BE149085 BE149034 BE149066 BE149048 BE149080 BE149038 BE149070 BE149045 BE149077 AA332178 BE259177 BE545625 T09105 S62076 M16424 NM\_000520 BE244309 F13516 BE251567 BE514981 AL119537 AA336739 BE261801 AA278642 N32708 T77034 W24621 W42478 AW630382 AW856214 AA134234 M13520 BE379212 AA287459 BED19379 BE297192 BE162970 AW405668 AW403322 BE272280 BE208703 BE304428 BE162807 BE162828 BE162887 BE078944 BE163025 BE162878 BE162909 BE162898 BE162791 BE162880 BE073563 BE163086 BE162896 BE162770 BE073565 BE162906 BE162913 BE162947 BE162803 BE262199 BE162811 BE080697 BE315095 AW206024 AI291054 BE087364 AL046839 AA304422 AA847660 AA669876 BE392765 AI567798 AW026644 AW151258 AA996314 ALESTIGS BESISTA ALUGUSSI AASUATZI AAB47650 AAG58876 BESISZ765 ALSG7793 AW022644 AW151258 AAS96314
ALB28660 AL571158 TG1941 AW103503 AW172698 AIS23715 AI823709 TG2167 AW771381 AW151782 AL79228 AW242271
AA128031 BE261306 BE312241 AI674880 BE261057 AA630684 AA831305 Al139346 AW082447 AA916854 AA916855 TU5970
AA599395 AA921680 AI244674 AI041920 AA424998 AI362999 W42543 T51260 AL562486 AI69366 AI827925 AI027381
AI027370 AI209049 AA782220 AI334014 AI279051 AI217711 AI674210 AM93370 AI701683 T23782 AI927545 AI784291
AA128007 AI370630 AI972736 AA853763 N92379 AI916746 AA639633 AA907603 AI479452 AW950971 T28985 AI685825
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337032 CH22_4910FG_438_3_
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328859 c_7_hs
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304056 R08577
304060 T61464
304125 H40976
304127 H42981
304134 H54627
304195 N35382
                       AF103179 U82961
302952 39444_1
302996 41196_1
                       AF054663 AF124197 R70292
304269 AA069029
304324 AA137045
304330 AA157834
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> AW818280 BE514686 AW853024 BE563744 AA300469 T07592 BE622190 BE27834 W21781 BE315450 BE542367 BE393120
> AA988441 H55137 BE562296 BE622502 BE395960 AA329733 AA332348 AI768317 AA456866 AI497832 AW878437 AA857042
> U18018 BE621418 AB18790 AI494907 BE397633 AI885545 AI858854 AI355147 BE169028 S62138 AW732191 AA856891
> BE266060 X71427 BE268557 AF095890 AW001288 AI799634 AI623498 AA071346 BE547662 BE261446 AI564543 BE599759 U35622 BE314249 BE264915 Al638591 Al538385 AW090025 BE384754 Al888689 AW778800 Al925273 AA075797 AW949130 AV660275 AW438697 AL587137 AL524121 AA806249 AW628247 AA808241 AL244388 AL761125 AW117672 AA911782 Al129250 AA654447 H55291 BE258050 BE206162 W95867 AA857187 Al871378 Al660103 AW103827 Al220929 AW149949 BE465561 Al302857 AW168841 D82190 AW249814 Al623432 AK87358 AW951077 R51592 W60458 Al092863 AW474693 D12765 Al911646 D82208 D82187 AW074031 Al358527 AW338497 AA970893 AW072573 AA205364 AR58886 AA012830 AW148763 AK863056 AA548656 BE250325 AK16994 AI864005 BE046122 A497746 C75340 R58896 D82141 AW168240 C19048 AI741090 D29465 AI22365 AA948288 AI583522 AW572212 AI091290 AA567897 AA570629 W60883 AM245090 AL094290 AA570829 AA570629 AA570629 W60883 C19048 AI741090 D29465 AI222365 AA948288 AI583522 AW572212 AI091290 AA5827Z7 AA579897 AA570629 W60883 AW516989 AL038160 AA577334 AI865872 AA994043 AA922583 AA464778 AA209178 AI829479 AI370235 BE246529 AA384177 AA456255 AI699730 W60654 AL035744 AA862042 R32756 AI886886 AA993087 AI289479 AA627840 AA464184 AI619503 R32755 AW075358 AI432315 AA457024 AA020865 R92132 AA454629 AA746059 AA454643 AA456240 AA826984 BE163738 AI806470 AI991074 AI802506 AA587095 AA558741 AA968521 N87780 AI538246 N71794 AV661738 AI368903 AA362570 AI989445 AI674962 \$75762 BE245204 AA975296 D20123 AW005704 AA693328 AA582270 AI918474 AW205707 AI696299 AA220990 AA101538 T29039 H27201 AW262526 AI610530 AA126840 AA126790 X92120 AW367868 BE299644 BE299451 AA476561 BE300044 AA134363 BE295222 AA307504 N42337 AA319098 N39502 AW964461 N57241 BE290049 N863329 DE1166 AA085859 T75212 AA133939 AA147129 AA156161 BE543953 BE538848 AA133676 BE299745 AA136050 N86332 R51156 AA085859 T75212 AA133939 AA147129 AA156161 BE543953 BE538848 AA133676 BE299745 AA135050 AA218535 AW406401 AW411287 BE410528 C01410 NM\_004083 BE314959 AA836413 AA085862 AW024370 AA471059 AW467508 AA001025 AI828231 AA633221 T95517 AA147038 AA476447 AW0Z7012 AW078627 BE513200 A1192297 AA886279 AW081806 AA316185 AA010506 A1269929 W93139 A1682935 AA609555 AA378028 A1093877 AA999997 AA730698 A1143923 AW575315 AA890550 AA494353 AW576601 AI796336 AA826130 AA609207 AI539618 AK88539 AI089090 AA825505

U63836 AW842139 X74956 U78550 AW840802 X74954 AW388241 AW842709 AF253321 X74955 X74370 AW363799

PCT/US02/06001 WO 02/068677

AA632978 AA015892 AW204713 AA156495 AA824813 AA133630 N29826 AA527476 Al633352 TZ7908 AA134364 AA133940 AW043601 H37775 AA772375 AA057871 AA047888 AA054225 H86568 AA001511 H25718 AW189507 AA165589 AA054433 H85549 AA165486 AA068972 AA454911 AA64064 AA493802 AA428253 R85508 AW3022469 Al611812 BE162582 F11073 T95518 N26811 A1783929 H40669 AW611745 Al658803 R51042 R45276 AA528386 AA782875 AW880218 AL138391 AA314536 AW949338 AA149466 AA149552 AI346513 AA216776 BE349131 AW007654 AI141803 AA622688 AI185131 AW057635 AA101539 AA627986 H27202 AL536847 W93084 AI973148 Al246788 AW572108 AI469414 AA454635 AA612707 AA430746 AI084991 AA010400 AA856636 AA463328 AI248310 R07170 AA834033 D12244 AI655670 AA054350 AA639480 AI702067 AI475789

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AI475389 S77356 AA046804 AA046821 AA070316 AA079318

332099 genbank\_AA608983

AA608983

332240 genbank\_N54803

N54803

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## **TABLE 1-20B**

Table 1-20B, shows the genomic positioning for those pkeys lacking unigene ID's and accession numbers in Tables 1-20. For each predicted exon, we have listed the genomic sequence source used for prediction. Nucleotide locations of each predicted exon are also listed.

Pkey: Ref:	Unlique number corresponding to an Eos probeset  Sequence source. The 7 digit numbers in this column are Genbank Identifier (GI) numbers. "Durnham I. et al." refers to the publication entitled "The DNA"
Strand: Nt_position:	sequence of human chromosome 22." Dunham I. et al., Nature (1999) 402:489-495. Indicates DNA strand from which exons were predicted. Indicates nucleotide positions of predicted exons.

Pkey	Ref Strand	Nt position
332792	Dunham, I. et al. Phys	73381-73768
332843	Dunham, Letal. Phrs	1142859-1143494
332909	Dunham, Letal. Plus	1946582-1946735
332920	Dunham, Letal. Plus	2007562-2007785
332947	Dunham, I. et al. Plus	2431726-2432006
332949	Dunham, I. et al. Phys	2436245-2436348
332958	Dunham, Letal. Plus	2516164-2516310
332992	Dunham, I. et al. Phis	
332993	Dunham, Letal. Plus	2699997-2701093
333004	Dunham, I. et al. Plus	2701550-2701685
333006		2759058-2759165
333007	Dunham, Letal. Plus	2762853-2762953
333132	Dunham, Letal Plus	2763569-2763709
333133	Dunham, Letal Plus	3358040-3358153
333139	Dunham, I. et al. Plus	3360058-3360195
	Dunham, I. et al. Plus	3369495-3369571
333152	Dunham, I. et.al. Plus	3612171-3612354
333205	Dunham, I. et al. Plus	3942727-3943009
333221	Dunham, I. et al. Plus	3978070-3978187
333225	Dunham, I. et al. Plus	3992229-3992386
333245	Dunham, I. et al. Plus	4157587-4157668
333248	Dunham, I. et al. Plus	4162041-4162139
333261	Dunham, Letal. Plus	4336597-4337752
333272	Dunham, I. et al. Plus	4381561-4382212
333281	Dunham, I. et al. Plus	4506230-4506342
333283	Dunham, I. et al. Plus	4514226-4514360
333288	Dunham, Letal Phys	4516841-4516939
333298	Dunham, I. et al. Plus	4581537-4581947
333306	Dunham, Letal. Plus	5396233-5396310
333382	Dunham, I. et al. Plus	4905796-4905913
333403	Dunham, I. et.al. Plus	4925140-4925256
333420	Dunham, I. et al. Plus	4954302-4954465
333428	Dunham, I. etal. Plus	4973869-4974007
333464	Dunham, Letal Plus	5210762-5211300
333465	Dunham, I. et.al. Plus	5211385-5211858
333488	Dunham, Letal, Plus	5396233-5396310
333515	Dunham, I. et al. Plus	5564299-5564851
333520	Dunham, I. et al. Plus	5586133-5586296
333566	Dunham, Letal. Plus	5954226-5954473
333567	Dunham, Letal. Plus	5959139-5959515
333571	Dunham, I. et al. Plus	6007916-6008058
333572	Dunham, I. et al. Plus	6026896-6027189
333576	Dunham Letal Plus	6090345-6090721
333577	Durham, Letal. Plus	6123950-6124281
333580	Dunham, Letal, Plus	6142935-6143145
333587	Dunham, I. et al. Phys	6250599-6250966
333588	Dunham, I. et al., Plus	6255445-6255779
333591	Dunham, Letal, Plus	6285884-6286251
333592	Dunham, Letal. Plus	6297731-6297976
333593	Dunham Letal Phis	
333594	Dunham, Letal Phys	6304132-6304428 6308000 6300450
333599	Durham, Letal. Plus	6308990-6309450
333600	Dunham, Letal. Phys	6337885-6338255 6356630 636606
333601	Dunham, Letal. Phis	6355629-6355925
333607	Dunham, Letal, Phis	6360075-6360442 6504434 6504689
333608		6504431-6504690
<b>33300</b>	Dunham, Letal Phys	6510834-6511130

333619	Dunham, I. et.al.	Plus	6562799-6562926
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333626	Dunham, I. et.al.	Phis	6614174-6614467
333627	Dunham, L et.al.	Phis	6620584-6620903
333628	Dunham, L et.al.	Plus	6629004-6629233
333629	Dunham, I. et al.	Phis	6636915-6637205
333631	Dunham, L. et.al.	Pius	6650904-6651011
333632	Dunham, I. et.al.	Plus	6651520-6651658
333635	Dunham, i. et.al.	Phis	6663683-6663973
333637	Dunham, I. et al.	Plus	6674968-6675134
333640	Dunham, I. et.al.	Plus	6688350-6688624
333642	Dunham, I. et.al.	Phis	6708760-6709139
333643	Dunham, I, et al.	Plus	6728053-6728343
333646	Dunham, I. et.al.	Phs	6739110-6739379
333647	Dunham, I. et.al.	Plus	6772502-6772779
333648	Dunham, I. et.al.	Plus	6787465-6787782
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333653	Dunham, I. et al.	Plus	6811130-6811392
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333656	Dunham, I. et al.	Phis	6822087-6822406
333657	Dunham, I. etal.	Plus	6831369-6831445
333658	Dunham, I. et.al.	Pas	6835282-6835474
333668	Dunham, I. et.al.	Phis	7011009-7011223
333670			
333680	Dunham, I. et al.	Plus Plus	7027945-7028181 7071730-7071794
	Dunham, i. etal.		
333682	Dunham, I. et al.	Plus Plus	7076641-7076760 7205279-7205383
333698	Dunham, I. et al.		
333710	Dunham, I. etal.	Plus	7230314-7230476
333717	Dunham, I. et.al.	Plus	7308714-7308815
333727	Dunham, I. et al.	Plus	7373219-7373311 7775317-7775415
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333859		Plus	7795972-7796082 8041203-8041359
	Dunham, I. et al.	Plus	
333875	Dunham, I. et al.	Plus Ch	8135505-8136179 8146919-8147062
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333932	Dunham, I. et al.	Plus Plus	8479486-8479580 8489124-8489205
333983	Dunham, I. et.al. Dunham, I. et.al.	Plus	8813593-8813668
333987	•	Phus	8824245-8824376
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334010		Plus	8995696-8998236
334015	Dunham, I. et al.	Plus	9055452-9055595
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334030	Dunham, I. et al.	Plus	9288463-9288782
334044	Dunham, I. et.al. Dunham, I. et.al.		9373898-9374065
		Plus Plus	9428152-9428211
334047 334055	Dunham, I. et.al. Dunham, I. et.al.	Plus	9662077-8662270
334063	Dunham, I. etal.	Plus	9731991-9732085
334066	Dunham, I. etal.	Plus	9739568-9739680
334068	Dunham, I. et al.	Plus	9746279-8746477
334076		Plus	9801613-9801693
334091	Dunham, Letal	Plus	9872327-9872527
334106	Dunham, I. et al.	Phis	10261155-10261841
334109	Dunham, I. et al.	Plus	10267679-10267864
	Dunham, I. et al.	•	10279365-10279531
334111 334115	Dunham, Letal	Pius Pius	10316414-10316608
334118	Dunham, I. et.al.	Plus	10344273-10344384
334120	Dunham, I. et al.	Plus	10402389-10403196
334135	Dunham, I. etal. Dunham, I. etal.	Plus	10457085-10457183
			12983601-12983703
334235 334239	Dunham, I. et.al.	Plus Plus	13056569-13056693
	Dunham, I. et al.		13159198-13159302
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334298	Dunham, I. et al.	Plus	13646844-13646980
334342	Dunham, I. et.al.	Plus	
334354	Dunham, I. et al.	Plus	13702598-13702747
334430	Dunham, I. et.al.	Phys	14269664-14270102
334435	Dunham, I. et al.	Plus	14275597-14275689
334451	Dunham, I. etal.	Plus	14315572-14315741
334504	Dunham, i. etal.	Plus	14510208-14510398

334510	Dunham, Letal. Phis	14522303-1452241
334518	Dunham, Letal. Plus	14630584-1463066
334525	Dunham, Letal. Plus	14781086-1478113
334528	Dunham, Letal. Phys	14787558-1478767
334529	Dunham, Letal. Plus	14788825-1478897
334565	Dunham, Letal Plus	14989033-1498935
334568	Dunham, Letal Phrs	14992698-14993210
334590	Dunham, Letal. Plus	15033247-1503375
334612	Dunham, Letal. Plus	15170470-1517053
334626	Dunham, Letal Phis	15299954-15300077
334661	Dunham, Letal Phis	15477716-15477789
334664 334666	Dunham, i. et.al. Plus	15501941-15502119
334576	Dunham, Letal: Pius Dunham, Letal: Pius	15504203-15504279
334677	Dunham, Letal Phis Dunham, Letal Phis	15516334-15516412
334719	Dunham, i. et.al. Plus	15517449-15517560 15778859-15779026
334730	Dunham, Letal. Plus	15967830-15967934
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335217	Dunham, Letal, Minus	21801622-21801195

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335777	Dunham, L et.al.	Minus	25885770-25885599
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336280	Dunham, Let.al.	Minus	32103588-32103497
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336510	Dunham, I. et al.	euniM	34277046-34276928
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337455	Dunham, Letal, Minus	32434517-32434425
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337884	Danieli, r crar	IMAILLS	3400001-0400010
337885			
337895			
337898			
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325791	6682476	Plus	344059-344841
329782	5912597	Plus	123410-123499
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325965	5867147	Plus	216364-216516
325966	5867147	Plus	217235-217356
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326552	5867308	Minus	6988-7107
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326458	5867400	Plus	128045-128147
326459	5867400	Phus	137590-138212
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330153	4325335	Plus	146951-147475
330130	6002196	Minus	241903-241967 38485-36577
327203 327206	5867447 5867447	Plus Plus	38485-38377 177855-178031
327259	5867454	Plus Plus	87268-87438
327264	5867461	Plus	47014-47367

327273	5867466	Plus	73451-73549
327274	5867470	Minus	84027-84128
32/2/7	5867473	Minus	165616-165715
32/2/8	5867473	Minus	166350-166439
327289	5867481	Phus	49298-49536
327304	5887494	Pius	20664-20850
327315 327246	5867508 5867547	Minus Phis	78409-79245
327155	5867549	Plus.	136212-136325 90343-90876
327159	5867550	Minus	8219-8331
327334	5902477	Minus	142655-142745
327341	6017016	Minus	122906-123014
327185	6117805	Minus	3287-3451
327309	6456757	Minus	10219-10457
327263 327362	6525274	Minus	153814-154920
327413	6552412 5867750	Minus Plus	62459-62805
327418	5867750	Minus	101410-101508 153453-153547
327430	5867754	Phis	1320-1403
327431	5867754	Plus	1853-1958
327472	5867775	Plus	74628-74937
327487	5867785	Minus	146220-146326
327379	5867795	Plus	1368-1820
327461 327532	6004455 6469818	Plus Plus	209031-209210 71994-72137
330170	6648220	Phis	103280-103849
330166	6648220	Plus	86542-86867
327544	5867797	Minus	18105-18332
327564	5867811	Ptus	13850-14018
327566	5867811	Plus	33383-33901
327581	5867825	Plus	5318-5434
327585 327605	5867825	Phus	85660-85764
327710	6004463 5867860	'Plus Minus	199214-199579 131012-131790
327610	5867868	Minus	174109-174278
327624	5867871	Minus	37699-37788
327641	5867890	Plus	13583-13702
327646	5867894	Minus	3043-3258
327614	6525283	Plus	3634-4001
327736 327739	5867940 5867942	Minus	37781-37887
327740	5867943	Minus Plus	182187-182548 25716-26077
327743	5867944	Minus	155930-156098
327755	5867955	Minus	61969-62145
32///2	5867964	Minus	26185-26285
327774	5867964	Minus	127659-127899
327823 327827	5887968	Minus	170359-170433
327833	5867968 5867968	Minus	201918-202048 303618-303732
327805	5867968	Minus Plus	19952-20019
327809	5867968	Phrs	54610-54761
327816	5867968	Minus	79202-79552
327790	5867977	Phis	19822-19985
327791	5867977	Plus	22491-22610
327793 327845	5867979	Plus	18874-19254
327846	6531962 6531962	Plus Plus	193402-193549 195216-195373
330204	6013606	Plus	86663-86811
330189	6165182	Minus	26732-26991
330239	6671857	Ptus	117484-118092
330266	6671885	Minus	129505-129832
330275	6671904	Plus	103585-103716
330280	6671910	Plus	2109-2377
330286 327999	6671913	Minus	31050-31171
328109	5867994 5868020	Phus Minus	94710-94841 353895-354525
328098	5868020	Minus	261745-261920
328134	5868039	Phus	72354-72487
328171	5868071	Plus	101102-101224
328221	5868099	Minus	37489-37829
328224	5868101	Plus	105563-105832
328228	5868105	Minus	21488-21596
328236 327864	5868117	Plus	13864-14371
327888	5868130 5868149	Plus Minus	59139-59358 51964-52120
327899	5868156	Minus	102288-102697
	~~~100	TTHE ILES	الالبيانا "مسييان

327925	5868172	Minus	118396-118490
327927 327937	5868173 5868192	Plus Minus	50989-51246 33127-33485
327946	5868206	Plus	44102-44319
327982	5868216	Plus	30307-30527
327990	5868218	Minus	36225-36503
328015 328016	5902482 5902482	Minus Minus	477679-478113 507572-508519
328025	5902482	Minus	931937-932171
328031	5902482	Plus	1176372-1177283
328053	5902482	Minus	2709850-2710010
328243	6056292	Plus	1-243
328271 328592	6552415 5868227	Phus Minus	39015-39098 252407-252565
328570	5868231	Plus	89210-89816
328607	5868233	Minus	246798-246944
328620	5868241	Minus	15651-15788
328624	5868246 5868309	Minus Plus	120668-120836 171592-171929
328791 328810	5868327	Plus	101730-101914
328820	5868330	Plus	90446-90602
328835	5868339	Plus	88053-88461
328282 328314	5868353	Plus	72692-72819
328328	5868371 5868375	Minus Plus	288397-288505 169210-169407
328420	5868411	Plus	53612-53886
328428	5868417	Plus	13599-13780
328436	5868417	Plus	203760-203904
328444 328462	5868420 5868433	Plus Plus	65393-66103 49649-49768
328467	5868434	Minus	15954-16073
328474	5868446	Minus	128777-128970
328484	5868454	Minus	21974-22140
328504 328506	5868471 5868471	Plus Plus	47064-47217 60716-60830
328507	5868473	Minus	199637-199990
328544	5868486	Plus	145659-145829
328552	5868489	Plus	47328-47607
328557 328558	5868489 5868489	Plus	138094-138161 143648-144108
328276	6004471	Plus Plus	13282-13450
328277	6004471	Minus	279901-280181
328662	6004473	Plus	1184773-1184855
328636 328803	6004473 6004475	Plus	192484-192543 291716-291948
328305	6004478	Minus Minus	34730-34851
328569	6004480	Plus	232898-233243
328581	6006033	Minus	121249-121400
328582 328768	6006033 6017031	Minus	134177-134282 223741-224238
328770	6017031	Minus Minus	363933-364166
328841	6381920	Minus	5214-5479
328851	6381923	Plus	2502-2606
328859 328860	6381928	Plus	69045-69138
328863	6381928 6381929	Plus Minus	83265-83366 29313-29506
328868	6381930	Plus	112825-112993
328876	6525286	Plus	94053-94185
328886	6588003	Plus	31068-31429
328888 328936	6588003 5868500	Minus Minus	111901-111999 1352202-1352259
328938	5868500	Plus	1522923-1522986
328971	6478806	Minus	23976-24105
330338	5457162	Plus	48406-48518
330327 330319	5919194 5932415	Plus Plus	121561-121683 49095-50132
328974	5868520	Plus	31557-31668
328981	5868527	Minus	105677-105764
328989	5868535	Plus	182088-182198
330363 330370	3126882 6580495	Minus Plus	61838-61901 10826-11669
329041	5868564	Plus Plus	141592-141785
329078	5868597	Plus	326798-326860
329097	5868624	Paus	12002-12170
329107 329114	5868626	Plus	101063-101190 23792-23910
V43114	5868650	Minus	とう! コケーとうご !ひ

329116	5868650	Minus	43389-43493
329164	5868691	Plus	62305-62517
329187	5868713	Plus	29909-30175
329201	5868718	Plus	79266-79539
329221	5868727	Minus	105837-105894
329246	5868732	Minus	250541-250792
329254	5868733	Phis	4133-4214
329326	5868806	Plus	155884-155992
329330	5868806	Minus	340278-340403
329382	5868868	Plus	41401-41655
329384	5868869	Minus	116524-116662
329386	6004484	Plus	160502-161110
329140	6017060	Phus	290842-290905
329182	6056331	Minus	662206-663423
329018	6249620	Pius	103950-104034
329319	. <b>63</b> 81976	Phis	721390-721470
329392	6478815	Pius	109786-109854
329029	6525302	Plus	281445-282490
329401	6682544	Plus	21342-24014
329406	6682547	Plus	47249-47395
329411	6682549	Minus	84558-84835
329429	5868882	Minus	97008-97091
329436	5868883	Phis	230265-230528
329464	6456788	Minus	4437-4538

### TABLE 21:

# 310 GENES UP-REGULATED IN COLON CANCER DERIVED LIVER METASTASES COMPARED TO NORMAL COLON TISSUE

Table 21 shows 310 genes up-regulated in colon cancer derived liver metastases compared to normal colon tissue. These were selected from 59680 probesets on the Affymetrix/Eos Hu03 GeneChip array such that the ratio of "average" colon cancer derived liver metastases to "average" normal colon tissues was greater than or equal to 3.0. The "average" colon cancer derived liver metastases level was set to the 50th percentile. The "average" normal colon tissue level was set to the 50th percentile.

Pkey: Unique Eos probeset identifier number

Accu: Exemplar Accession number, Genhank accession number

UnigeneID: Unigene number

Unigene Title: Unigene gene title
R1: Genes up mets vs normal

Pkey ExAcon UnigenelD Unigene Title R1 446619 AU076643 Hs.313 secreted phosphoprotein 1 (osteopontin, 26.72 431958 X63629 Hs.2877 cadherin 3, type 1, P-cadherin (placenta 16.36 409041 AB033025 Hs.50081 KIAA1199 protein 13.94 Hs.283713 ESTs, Wealthy similar to S64054 hypotheti 444381 BE387335 13.90 432314 AA533447 Hs.312989 ESTs 12.24 428330 L22524 Hs.2256 matrix metalloproteinase 7 (matrilysin, 11.60 443162 T49951 Hs.9029 DKFZP434G032 protein 9.52 436385 BE551618 Hs.144097 ESTs 9.20 418662 Al801098 Hs.151500 ESTs 9.00 433312 Al241331 Hs.131765 ESTs, Moderately similar to I38937 DNA/R 8.90 412093 BF242691 Hs.14947 ESTS 8.74 442369 Al565071 Hs.159983 ESTs 8.40 426101 AL049987 Hs.166361 Homo sapiens mRNA; cDNA DKFZp564F112 (fr 8.39 435937 AA830893 Hs.119769 ESTs 8.22 T93500 Hs.28792 452281 Homo sapiens cDNA FLJ11041 fis, done PL 8.22 432572 AI660840 Hs.191202 ESTs, Weakly shrellar to ALUE\_HUMAN [III] 440524 R71264 Hs.16798 ESTs 7.94 424878 H57111 Hs.221132 ESTs 7.88 430433 AA478883 Hs.273766 ESTs 7.82 410245 C17908 Hs.194125 ESTs 7.78 417315 AJ080042 Hs.336901 ribosomal protein S24 7.76 430665 BE350122 Hs.157367 ESTs, Weakly similar to 178885 sertne/th 7.76 432435 BE218886 Hs.282070 ESTs 7.74 426818 AA554827 Hs.289115 DKFZp434A0131 protein 7.58 419145 N99638 gbzza39g11.rt Soares fetal liver spleen 7.56 444838 AV651680 Hs.208558 ESTs 7.54 428046 AW812795 Hs.155381 ESTs, Moderately similar to 138022 hypot 7.48 446682 AW205632 Hs.211198 ESTs 7.26 421221 AW276914 Hs.326714 Homo sapiens done IMAGE:713177, mRNA se 7.19 7.12 440116 Al798851 Hs.283108 hemoglobin, gamma G 450230 AW016607 Hs.201582 ESTs 7.08 gb:nc39d05\_r1 NCI\_CGAP\_Pr2 Home saptens 456332 AA228357 7.04 Hs.108623 thrombospondin 2 421814 L12350 **PR R** 440774 AI420611 Hs.127832 ESTs 6.86 428065 AI634046 Hs.157313 ESTs 6.78 422330 D30783 Hs.115263 eptregulin 6.72 413950 AA249096 Hs.32793 ESTS 6.67 438011 BE466173 Hs.145696 splicing factor (CC1.3) 6.62 Hs.10450 Homo saplens cDNA: FLJ22063 fis, clone H 421057 T58283 6.58 428598 AA852773 Hs.334838 KIAA1866 protein 6.40 408806 AW847814 Hs.289005 Homo sapiens cDNA: FLJ21532 ffs, clone C 425787 AA363867 Hs.155029 ESTs 6.38 435812 AA700439 Hs.188490 ESTs 6.32 448974 AL049390 Hs.22689 Homo sapiens mRNA; cDNA DKFZp586O1318 (f 6.28 418875 W19971 Hs.233459 ESTs 6.22 Hs.214039 hypothetical protein FLJ23556 407284 AJ539227 6.17 408243 Y00787 Hs.624 interieukin 8 6.12 434936 Al285970 Hs.183817 ESTs 6.12

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412088	Al689496	Hs.108932	FSTs	6.04	
		Hs.74313	KIAA1265 protein	6.00	•
407618	AW054922	Hs.53478	Homo saniers cDNA FLJ12366 fis clone MA	5.98	
408236	AL117452	Hs.44155	DKFZP586G1517 protein	5.94	
456999	AA319798	Hs.296581	eultaryotic translation elongation factor	5.90	
432309	AW452948	HS.257631	ESTS	5.88	
423349	AUTU 10200 AA7DARDS	Ho 1/19/1	homeo box A9 ESTs, Wealthy similar to 2004399A chromos	5.84	
453204	R10799	Hs.191990	ESTS, Treatily Silling to 2004399A CHICITIOS	5.84 5.84	
429183	AB014604	Hs.197955	KIAA0704 protein	5.78	
427882	AA640987	Hs.193767	ESTS	5.72	
447033	AI357412	Hs.157601	ESTs	5.70	
428054	A1948688	Hs.266619	ESTs	5.66	
414504	AW059181	Hs.115175	sterile-alpha motif and leucine zipper c	5.64	
	AW294522 AA215404			5.64	
			Homo sapiens cDNA FLJ12142 fis, clone MA	5.60	
419999	Al760942	Hs.191754	ESTs	5.58	
431749	AL049263	Hs.305292	Homo sapiens mRNA; cDNA DKFZp564F133	ft .	5.58
422790	AA809875	Hs.25933	ESTs	5.56	
	AL042005		tripeptidy) peptidase ()	5.48	
432451	AW972771	HS.292471	ESTs, Wealthy similar to ALU1_HUMAN ALU S		5.46
	AA811244 AF102546			5.44	
426317	AA312350	Hs 169294	dachshund (Drosophila) homolog transcription factor 7 (T-cell specific,	5.42 5.42	
450164	Al239923	Hs.30098	ESTs	5.42	
	AF085833			5.38	
	AL043683			5.36	
	AW176909			5.34	
419829	AI924228	Hs.115185	ESTs, Moderately similar to PC4259 ferri	5.33	
40/900	AA295052 AI199268	MS.38516	Homo saplens, clone MGC:15887, mRNA, cor	n	5.30
	H13139			5.26 5.26	
			Homo sapiens cDNA FLJ13266 fis, clone OV	5.20 5.22	
443373	A1792868	Hs.135365	ESTs	5.22	
412059	AA317962	Hs.249721		5.21	
	W22152			5.21	
411274	NM_002776	iHs.69423	kallikrein 10	5.17	
424000	LIENCOC		The Property of the Park		
	U50535	Hs.110630	Human BRCA2 region, mRNA sequence CG0		5.17
426981	AL044675	Hs.110630 Hs.173081	KIAA0530 protein	5.14	5.17
426981 431319		Hs.110630 Hs.173081	KIAA0530 protein ESTs	5.14 5.10	5.17
426981 431319 434966	AL044675 AA873350	Hs.110630 Hs.173081 Hs.302232 Hs.88959	KIAA0530 protein ESTs gbont66f04.s1 NCI_CGAP_Pr3 Homo saptens hypothetical protein MGC4816	5.14 5.10 5.10 5.08	5.17
426981 431319 434966 418830 428290	AL044675 AA873350 AA657494 BE513731 AI932995	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475	KIAA0530 protein ESTs gbmt66f04.s1 NCL_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence	5.14 5.10 5.10 5.08	5.17
426981 431319 434966 418830 428290 408784	AL044675 AAB73350 AA657494 BE513731 AI932995 AW971350	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386	KIAA0530 protein ESTs gbmt66f04.s1 NCL_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs	5.14 5.10 5.10 5.08 5.07 5.04	5.17
426981 431319 434966 418830 428290 408784 411975	AL044675 AAB73350 AA657494 BE513731 AI932995 AW971350 AI916058	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386	KIAA0530 protein ESTs gbont66f04.s1 NCL_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs	5.14 5.10 5.10 5.08 5.07 5.04 5.02	5.17
426981 431319 434966 418830 428290 408784 411975 409760	AL044675 AA873350 AA657494 BE513731 AI932995 AW971350 AI916058 AA302840	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583	KIAA0530 protein ESTs gbont66f04.s1 NCL_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs gb:EST10534 Adipose tissue, white I Homo	5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97	5.17
426981 431319 434966 418830 428290 408784 411975 409760 420717	AL044675 AAB73350 AA657494 BE513731 AL932995 AW971350 AL916058 AA302840 AA284447	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887	KIAA0530 protein ESTs gbmt66f04.s1 NCL_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs ESTs gbrEST10534 Adipose tissue, white I Homo ESTs	5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 4.96	
426981 431319 434966 418830 428290 408784 411975 409760 420717 417035	AL044675 AA873350 AA657494 BE513731 AI932995 AW971350 AI916058 AA302840	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887 Hs.22968	KIAA0530 protein ESTs gbmt66f04.s1 NCL_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs ESTs gbrEST10534 Adipose tissue, white I Homo ESTs Homo saptens clone IMAGE:451939, mRNA se	5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 4.96	5.17 4.95
426981 431319 434966 418830 428290 408784 411975 409760 420717 417035 434442 441328	AL044675 AA873350 AA657494 BE513731 AI932995 AW971350 AI916058 AA302840 AA284447 AA192455 AA737415 AI982794	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887 Hs.22968 Hs.152826 Hs.152826 Hs.159473	KIAA0530 protein ESTs gbont66f04.s1 NCL_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs gbtEST10534 Adipose tissue, white I Homo ESTs Homo saptens clone IMAGE:451939, mRNA se ESTs ESTs	5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 4.96 9	
426981 431319 434966 418830 428290 408784 411975 409760 420717 417035 434442 441328 438962	AL044675 AA873350 AA657494 BE513731 AL932995 AW971350 AI916058 AA302840 AA284447 AA192455 AA737415 AI982794 BE046594	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887 Hs.22968 Hs.152968 Hs.159473	KIAA0530 protein ESTs gbont66f04.s1 NCL_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs gbcEST10534 Adipose tissue, white I Homo ESTs Homo saptens clone IMAGE:451939, mRNA se ESTs ESTs ESTs ESTs ESTs	5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 4.96 9 4.94 4.92 ns	
426981 431319 434966 418830 428290 408784 411975 409760 420717 417035 434442 441328 438962 451277	AL044675 AA873350 AA657494 BE513731 AI932995 AW971350 AI916058 AA302840 AA284447 AA192455 AA737415 AB82794 BE046594 AK001123	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887 Hs.22968 Hs.152826 Hs.152873 Hs.26176	KIAA0530 protein ESTs gbmt66f04.s1 NCL_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs ESTs BbEST10534 Adipose tissue, white I Homo ESTs Homo saptens clone IMAGE:451939, mRNA st ESTs ESTs ESTs ESTs gbthn41c11.x1 NCL_CGAP_RDF2 Homo sapte hypothetical protein FL110261	5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 4.96 4.94 4.92 ns	4.95
426981 431319 434966 418830 428290 408784 411975 409760 420717 417035 434442 441328 438962 451277 438408	AL044675 AA873350 AA657494 BE513731 AL932995 AW971350 AL916058 AA302840 AA302840 AA192455 AA737415 AL982794 BE046594 BE046594 AK001123 BE273296	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887 Hs.22968 Hs.152826 Hs.152873 Hs.25176 Hs.254467	KIAA0530 protein ESTs gbmt66f04.s1 NCL_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs gbrEST10534 Adipose tissue, white I Homo ESTs Homo saptens clone IMAGE:451939, mRNA se ESTs gbthn41c11.x1 NCL_CGAP_RDF2 Homo sapte hypothetical protein FLJ10261 Homo saptens cDNA FLJ13255 fis, clone OV	5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 4.96 4.94 4.92 ns 4.92 4.90	4.95
426981 431319 434966 418830 428290 408784 411975 434442 441328 438962 451277 438408 438862 4388623	AL044675 AA873350 AA657494 BE513731 AU93295 AW971350 AI916058 AA302840 AA284447 AA192455 AA737415 AI982794 BE046594 AK001123 BE273296 BE273296 AA602917 AW749865	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.2271887 Hs.22968 Hs.159473 Hs.26176 Hs.254467 Hs.254467 Hs.156974 Hs.156974	KIAA0530 protein ESTs gbont66f04.s1 NCL_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs gbcEST10534 Adipose tissue, white I Homo ESTs Homo saptens clone IMAGE:451939, mRNA se ESTs ESTs gbchn41c11.x1 NCL_CGAP_RDF2 Homo sapte hypothetical protein FLJ10261 Homo saptens cDNA FLJ13255 fis, clone OV ESTs. Wealth similar to 138022 hypothetic	5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 4.96 4.94 4.92 ns 4.92 4.90 4.88	4.95
426981 431319 434966 418830 428290 408784 411975 434442 441328 438962 451277 438408 438862 4388623	AL044675 AA873350 AA657494 BE513731 AU93295 AW971350 AI916058 AA302840 AA284447 AA192455 AA737415 AI982794 BE046594 AK001123 BE273296 BE273296 AA602917 AW749865	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.2271887 Hs.22968 Hs.159473 Hs.26176 Hs.254467 Hs.254467 Hs.156974 Hs.156974	KIAA0530 protein ESTs gbont66f04.s1 NCL_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs gbcEST10534 Adipose tissue, white I Homo ESTs Homo saptens clone IMAGE:451939, mRNA se ESTs ESTs gbchn41c11.x1 NCL_CGAP_RDF2 Homo sapte hypothetical protein FLJ10261 Homo saptens cDNA FLJ13255 fis, clone OV ESTs. Wealth similar to 138022 hypothetic	5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 4.96 4.94 4.92 ns 4.92 4.90	4.95
426981 431319 434956 418830 428290 408784 411975 409760 420717 417035 434443 438962 451277 438408 424950 424950 424953 444783 444301	AL044675 AA873350 AA657494 BE513731 AL932995 AW971350 AI916058 AA302840 AA284447 AA192455 AI882794 BE046594 AK001123 BE273296 AA602917 AW749865 AK001468 AK000136	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887 Hs.22968 Hs.152826 Hs.152826 Hs.159473 Hs.26176 Hs.254467 Hs.156974 Hs.156974 Hs.156974 Hs.156974 Hs.156974 Hs.156974	KIAA0530 protein ESTs gbmt66f04.s1 NCL_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs ESTs Homo saptens clone issue, white I Homo ESTs Homo saptens clone iMAGE:451939, mRNA se ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	5.14 5.10 5.08 5.07 5.04 5.02 4.97 4.96 4.92 4.92 4.93 4.93 4.93 4.93 4.93 4.93 4.93 4.93	4.95
426981 431319 434966 418830 428290 408784 411975 420717 417035 434442 441328 438962 438962 436823 444783 444783 4445390	AL044675 AA873350 AA657494 BE513731 AL932995 AW971350 AL916058 AA302840 AA302840 AA192455 AA737415 AL982794 BE046594 AK001123 BE273296 AA602917 AW749865 AK001468 AK001468 AK001468 AK001468	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.22968 Hs.152826 Hs.152826 Hs.159473 Hs.254467 Hs.254467 Hs.254467 Hs.254467 Hs.10760 Hs.10760 Hs.144923	KIAA0530 protein ESTs gbont66f04.s1 NCL_CGAP_Pr3 Homo saptens hypothetical protein MGCA816 Homo saptens clone 25061 mRNA sequence ESTs ESTs gbt=ST10534 Adipose tissue, white I Homo ESTs Homo saptens clone IMAGE:451939, mRNA se ESTs ESTs gbtn41c1.x1 NCL_CGAP_RDF2 Homo sapte hypothetical protein FL110261 Homo saptens cDNA FLJ13255 fis, clone OV ESTs ESTs, Weakly similar to 138022 hypotheti amilin (Drosophila Scraps homolog), act asporin (LRR class 1) ESTs	5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.95 4.96 4.94 4.92 ns 4.92 4.90 4.88 4.87 4.80 4.80	4.95
426981 431319 434966 418830 428290 408784 411975 420717 417035 434442 441328 438962 451277 438408 424950 436823 444783 444330 439608	AL044675 AA873350 AA657494 BE513731 AL932995 AW971350 AL916058 AA302840 AA284447 AA192455 AA737415 AL982794 BE046594 BE046594 BE046594 BE046594 AK001123 BE273296 AA602917 AW749865 AK001468 AK001468 AK001468 AK001468 AK001468 AK001468 AK001468 AK001468 AK001468	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.22968 Hs.152826 Hs.152826 Hs.159473 Hs.254467 Hs.254467 Hs.156974 Hs.293645 Hs.10760 Hs.10760 Hs.144923 Hs.301732	KIAA0530 protein ESTs gbont66f04.s1 NCL_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs gbt=ST10534 Adipose tissue, white I Homo ESTs Homo saptens clone IMAGE:451939, mRNA se ESTs ESTs gbtn41c11.x1 NCL_CGAP_RDF2 Homo sapte hypothetical protein FL110261 Homo saptens cDNA FLJ13255 fis, clone OV ESTs ESTs, Weakly similar to 138022 hypotheti antilin (Drosophila Scraps homolog), act asporin (LRR class 1) ESTs hypothetical protein MGC5306	5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 4.96 4.94 4.92 4.90 4.88 4.87 4.80 4.80 4.80 4.80	4.95
426981 431319 434966 418830 408784 411975 409760 420717 417035 434442 441328 438962 444783 444783 444783 444301 4453908 450506	AL044675 AA873350 AA657494 BE513731 AL932995 AW971350 AL916058 AA302840 AA284447 AA192455 AA737415 AL982794 BE046594 AK001123 BE273296 AA602917 AW749865 AK0001368 AK0001368 AK0001368 AK0001368 AK0001368 AK0001368 AK0001368 AK0001368 AK00014680 AK00014690 AK0004460	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.22968 Hs.152826 Hs.152826 Hs.159473 Hs.254467 Hs.254467 Hs.156974 Hs.293645 Hs.10760 Hs.10750 Hs.14732 Hs.341732	KIAA0530 protein ESTs gbont66f04.s1 NCL_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs gbcEST10534 Adipose tissue, white I Homo ESTs Homo saptens clone IMAGE:451939, mRNA se ESTs ESTs gbchn41c11.x1 NCL_CGAP_RDF2 Homo sapte hypothetical protein FLJ10261 Homo saptens cDNA FLJ13255 fis, clone OV ESTs ESTs, Wealdy similar to I38022 hypotheti antilin (Drosophila Scraps homolog), act asporin (LRR class 1) ESTs hypothetical protein MGC5306 fibroblast activation protein, alpha	5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 4.96 4.94 4.92 4.90 4.88 4.87 4.80 4.80 4.80 4.80 4.80 4.80 4.80 4.80	4.95
426981 431319 434966 418830 408784 411975 409760 420717 417035 434442 441328 438962 451277 438408 438962 44783 444301 445390 43960 4	AL044675 AA873350 AA657494 BE513731 AL93295 AW971350 AI916058 AA302840 AA284447 AA192455 AA737415 AI982794 BE046594 AK001123 BE273296 BE273296 AK001468 AK001468 AK00136 AL222165 AK001468 AK000136 AL222165 AK004460 AL376400	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.2271887 Hs.22968 Hs.152826 Hs.152826 Hs.155447 Hs.254467 Hs.254467 Hs.156974 Hs.156974 Hs.169760 Hs.10760 Hs.10760 Hs.10760 Hs.10760 Hs.10760 Hs.10780	KIAA0530 protein ESTs gbont66f04.s1 NCL_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs gbcEST10534 Adipose fissue, white ! Homo ESTs Homo saptens clone IMAGE:451939, mRNA se ESTs gbcInt1.x1 NCL_CGAP_RDF2 Homo sapte hypothetical protein FL110261 Homo saptens cDNA FLJ13255 fis, clone OV ESTs ESTs, Wealdy similar to 138022 hypotheti amilin (Drosophila Scraps homolog), act asporin (LRR class 1) ESTs hypothetical protein MGC5306 fibroblast activation protein, alpha ESTs	5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 4.96 4.94 4.92 4.92 4.93 4.93 4.93 4.93 4.93 4.93 4.93 4.93	4.95
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426981 431319 434966 418830 428290 408784 411975 417035 434442 441328 438962 444324 445390 436823 444783 444300 436823 4445390 436824 445390 435881 435881 435881 435881 445909 4	AL044675 AA873350 AA657494 BE513731 AL932995 AW971350 AL916058 AA302840 AA284447 AA192455 AA737415 AL982794 BE046594 BE046594 BE046594 BE046594 BE046594 BE046594 AK0001123 BE273296 AA602917 AW749865 AK0001468 AK0001468 AK0001468 AK0001468 AK0001468 AK0001468 AK0001468 AK0001468 AK0001468 AK0001468 AK0001468 AK0001468 AK0001468 AK0001468 AK0001615 AK226495 AK226495 AK226495	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.152826 Hs.152826 Hs.152826 Hs.1528467 Hs.254467 Hs.254467 Hs.156974 Hs.10760 Hs.10760 Hs.10760 Hs.144923 Hs.10760 Hs.148 Hs.159588 Hs.159588 Hs.188620 Hs.33665 Hs.137551 Hs.84561 Hs.84561 Hs.84561 Hs.84561 Hs.84561	KIAA0530 protein ESTs gbont66f04.s1 NCL_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs gbtsT10534 Adipose tissue, white I Homo ESTs Homo saptens clone IMAGE:451939, mRNA se ESTs ESTs gbtn41c11.x1 NCL_CGAP_RDF2 Homo sapte hypothetical protein FL110261 Homo saptens cDNA FL113255 fis, clone OV ESTs ESTs, Weakly similar to 138022 hypotheti antilin (Drosophila Scraps homolog), act assporin (LRR class 1) ESTs hypothetical protein MGC5306 fibroblast activation protein, alpha ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 6.94 4.92 1.80 1.78 1.76 1.77 1.77 1.77 1.77 1.77	4.95 4.92
426981 431319 434966 418830 428290 408784 411975 420717 417035 434442 441328 435927 438408 424950 436823 444783 444783 444301 445390 439688 435756 432682 426086 435758 435758 447982	AL044675 AA873350 AA657494 BE513731 AL932995 AW971350 AL916058 AA302840 AA284447 AA192455 AA737415 AL982794 BE046594 AK001123 BE273296 AA602917 AW749865 AW605965 AW60616 AW60616 AW	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.22968 Hs.152826 Hs.152826 Hs.1528467 Hs.254467 Hs.254467 Hs.156974 Hs.156974 Hs.156974 Hs.16974 Hs.159588 Hs.10760 Hs.144923 Hs.301732 Hs.301732 Hs.318620 Hs.159588 Hs.159588 Hs.159588 Hs.159588 Hs.159588 Hs.159588 Hs.159588 Hs.159588 Hs.159588 Hs.159588 Hs.159588 Hs.159588 Hs.155223 Hs.158220 Hs.158220 Hs.158220	KIAA0530 protein ESTs gbont66f04.s1 NCL_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs ESTs Homo saptens clone IMAGE:451939, mRNA se ESTs Homo saptens clone IMAGE:451939, mRNA se ESTs ESTs gbchn41c11.x1 NCL_CGAP_RDF2 Homo sapte hypothetical protein FL110261 Homo saptens cDNA FL113255 fis, clone OV ESTs ESTs ESTs Wealdy similar to 138022 hypotheti anilin (Drosophila Scrape homolog), act asporin (LRR class 1) ESTs hypothetical protein MGC5306 fibroblast activation protein, alpha ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	5.14 5.10 5.5.08 5.5.07 5.5.04 5.5.02 5.5.04 5.5.02 5.5.04 5.5.02 5.5.04 5.5.02 5.5.04 5.5.02 5.5.04 5.5.02 5.5.04 5.5.02 5.5.04 5.5.02 5.5.04 5.5.02 5.5.04 5.5.02 5.5.04 5.04	4.95 4.92
426981 431319 434966 418830 428290 408784 411975 420717 417035 434442 441328 435927 438408 424950 436823 444783 444783 444301 445390 439688 435756 432682 426086 435758 435758 447982	AL044675 AA873350 AA657494 BE513731 AL932995 AW971350 AL916058 AA302840 AA284447 AA192455 AA737415 AL982794 BE046594 AK001123 BE273296 AA602917 AW749865 AW605965 AW60616 AW60616 AW	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.271887 Hs.22968 Hs.152826 Hs.152826 Hs.155473 Hs.26176 Hs.254467 Hs.156974 Hs.156974 Hs.16974 Hs.16974 Hs.16974 Hs.16974 Hs.16974 Hs.16974 Hs.16974 Hs.1750 Hs.1750 Hs.1750 Hs.1750 Hs.188620 Hs.278270 Hs.278270 Hs.278270	KIAA0530 protein ESTs ESTs bypothetical protein MGC4816 Homo sapiens clone 25061 mRNA sequence ESTs ESTs ESTs ESTs Homo sapiens clone image: Homo sapiens Homo sa	5.14 5.10 5.10 5.08 5.07 5.04 5.02 4.97 6.94 4.92 1.80 1.78 1.76 1.77 1.77 1.77 1.77 1.77	4.95 4.92
426981 431319 434966 418830 428290 408784 411975 409760 420717 417035 434442 441328 438408 424950 436823 444301 445390 43608 43608 43608 435981 432682 44783 44784 448461 448461 448461 448461 448461 448461 448461 448461	AL044675 AAB73350 AA657494 BE513731 AL932995 AW971350 AL916058 AA302840 AA192455 AA737415 AL982794 BE046594 AK001123 BE273296 AA602917 AW749865 AK0001458 AK00015485 AK0015485 AK0015485 AK0015485	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.22968 Hs.152826 Hs.152826 Hs.152826 Hs.152874 Hs.254467 Hs.254467 Hs.254467 Hs.254467 Hs.10760 Hs.144923 Hs.301732 Hs.418 Hs.159588 Hs.159588 Hs.159588 Hs.158572 Hs.188620 Hs.33665 Hs.154292 Hs.34561 Hs.154292 Hs.82920 Hs.82920 Hs.82920 Hs.82920	KIAA0530 protein ESTs Bonti66f04.s1 NCL_CGAP_Pr3 Homo saptens hypothetical protein MGC4816 Homo saptens clone 25061 mRNA sequence ESTs ESTs ESTs Homo saptens clone iMAGE:451939, mRNA se ESTs Homo saptens clone iMAGE:451939, mRNA se ESTs ESTs Homo saptens clone iMAGE:451939, mRNA se ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	5.14 5.10 5.5.08 5.5.07 5.5.04 5.5.02 5.5.04 5.04	4.95 4.92
426981 431319 434966 418830 428290 408784 411975 43760 420717 417035 434442 441328 438962 444327 438408 424950 436823 444783 444301 435756 432682 445386 435861 435861 435756 447934 445390 436823 447934 445390 435756 44783 44794 445380 435756 44783 44794 445380 435756 44783 44794 44800 43860 43	AL044675 AA873350 AA657494 BE513731 AL932995 AW971350 AL916058 AA302840 AA284447 AA192455 AA737415 AL982794 BE046594 BE046594 BE046594 AK001123 BE273296 AA602917 AW749865 AK001468 AK001468 AK001468 AK001468 AK001468 AK001468 AK001615 AW864696 RIM_004460 AL376400 TH74319 AA534222 AL418466 H22953 AA001615 AW26495 AW963419 AW069569 NM_014735 AW075485 AW075485	Hs.110630 Hs.173081 Hs.302232 Hs.88959 Hs.183475 Hs.63386 Hs.144583 Hs.152826 Hs.152826 Hs.152873 Hs.254467 Hs.254467 Hs.254467 Hs.156974 Hs.254467 Hs.16974 Hs.293645 Hs.301732 Hs.418 Hs.159588 Hs.185620 Hs.185620 Hs.185620 Hs.185620 Hs.185620 Hs.185620 Hs.185620 Hs.185620 Hs.185620 Hs.185620 Hs.185620 Hs.185620 Hs.185620 Hs.185620 Hs.28292 Hs.28290 Hs.293616	KIAA0530 protein ESTs ESTs bypothetical protein MGC4816 Homo sapiens clone 25061 mRNA sequence ESTs ESTs ESTs ESTs Homo sapiens clone 1846E451939, mRNA se ESTs Homo sapiens clone IMAGE:451939, mRNA se ESTs ESTs Homo sapiens clone IMAGE:451939, mRNA se ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	5.14 5.10 5.5.08 5.5.07 5.5.04 5.5.02 5.5.04 5.5.02 5.5.04 5.5.02 5.5.04 5.5.02 5.5.04 5.5.02 5.5.04 5.5.02 5.5.04 5.5.02 5.5.04 5.5.02 5.5.04 5.5.02 5.5.03 5.03	4.95 4.92

	AW979249		gb:EST391359 MAGE resequences, MAGP H		4.66
				4.66 4.62	
	W74001		The state of the s	4.62	
432409	AA806538	Hs.130732		4.60	
452220	BE158006	Hs.212296	ESTs	4.60	
	AA292998			4.58	
	AW950905 AK000275			4.58 4.58	
	AA610649			4.56	
				4.53	
		Hs.283039	Homo saplens PRO2492 mRNA, complete cds		4.50
	A1821270		Homo saplens cDNA FLJ14364 ffs, clone HE	4.50 4.48	
	AW450536 AA160363			4.40 4.47	
	X00442	Hs.75990		4.47	
		Hs.122579		4.44	
	AL118754	Un 45000	gb:DKFZp761P1910_r1 761 (synonym: harny2		4.44
493018 428270	AM/25340	Hs 155768		4.44 4.42	
	AA744550			4.42	
	AA489166			4.40	
	BE349534			4.40	
	T93096 T85314			4.40 4.39	
	R45175	Hs.117183		4.38	
				4.38	
408380	AF123050	Hs.44532	dlubiquitin	4.36	
				4.36	
	AA236282			4.34 4.32	
450295	AI766732	Hs.210628		4.32	
423578	AW960454	Hs.222830	ESTs	4.31	
419553	N34145	Hs.250614	ESTs, Moderately similar to ZN91_HUMAN Z		
	AA453987 H72531	Hs.36190		4.30 4.30	
	AA564489			4.30	
433735	AA608955	Hs.109653	ESTs	4.3D	
	AA010200			4.27	
	AI654133 AA769268			4 <i>.2</i> 7 4.26	
	AW136134			4.22	
439717	W94472	Hs.59529	ESTs. Moderately similar to ALU1_HUMAN A		
	A1954880	Hs.134604		4.19	
	AW961578 AW451469			4.17 4.17	
	NM_001949			4.16	
443135	Al376331	Hs.156103		4.16	
			ESTs, Weakly similar to ALUS_HUMAN ALU S		4.16
			ESTs, Moderately similar to ALU8_HUMAN A ESTs, Weakly similar to 138022 hypotheti	4.14 4.14	
	U46258	Hs.339665		4.14	
439451	AF086270			4.12	
	A1826999			4.12	
	AA761378			4.11 4.10	
	AA502999			4.09	
	AA367069		ESTS	4.08	
404571	1	11- 400000		4.06	
	U77413 AW975051			4.06 4.06	
	R31178			4.06	
433588	AI056872	Hs.133386	ESTs	4.06	
	AI624436			4.06	
	AF204231 H15474			4.06 4.06	
	AA810141		ESTs	4.05	
413497	BE177661		gb:RC1-HT0598-020300-011-h02 HT0598 Ho	mo	4.04
	Al133446		Homo saplens clone FLB7723 PRO2055 mRN		4.04
	AA470152		ESTs, Weakly similar to ALU1_HUMAN ALU S	4.04	4.02
	Al372949	Hs.44241		4.02	TALL
449429	AA054224	Hs.59847	ESTs	4.02	
	AF226053	Hs.66170	HSKM-B protein	4.00	4.00
	AA740616 AR032959	He 319594	gb:ny97f11.s1 NCL_CGAP_GCB1 Homo saple novel C3HC4 type Zinc finger (ring finge		4.00
4/(3)*(1.6)	المراسلان المارات	THE PART   LICENSES	INTELLEMENT TRUE SOLVER STATE STATE	1,450	

400500	Venere	11- 000444			
	X78565 AVA071403	75.209114 13/360	hexabrachion (tenascin C, cytotactin) ESTs, Highly similar to cytokine recepto	4.00	
435008	AF150262	Hs.162898	ESTs	4.00 4.00	
	AW971375			3.97	
444816	Z48633	Hs.283742	H.sapiens mRNA for retrotransposon	3.96	
434701	AA450479	Hs.321707	KIAA0742 protein	3.98	
413886	AW958264	Hs.103832	similar to yeast Upt3, variant B	3.95	
424905	NM_00249	7Hs.153704	NIMA (never in mitosis gene a)-related k	3.92	
	Y00272 AA699325	HS.1845/2	cell division cycle 2, G1 to S and G2 to	3.91	
	A1809314		ESTs, Wealdy similar to B34087 hypotheti	3.86 3.86	
	BE256832		hypothetical protein FLJ13449	3.85	
	T85301		gbcyd78d06.s1 Soares fetal liver spleen	3.85	
440638	AI376551		gbtle64e10.x1 Soares_NFL_T_GBC_S1 Horn		3.85
	AI253112	Hs.133540		3.84	
409596	BE244200	Hs.55075	KIAA0410 gene product	3.83	
	L44396		Homo saplens cDNA FLJ11941 fis, clone HE		
	AA355925		KIAA0186 gene product KIAA1719 protein	3.83	
409262	AK000634	He 52256	hypothetical protein FLJ20624	3.81 3.80	
	AW963118			3.78	
			Homo saplens cDNA FLJ12532 ffs, clone NT	3.77	
428079	AA421020	Hs.208919	ESTs	3.77	
			Homo sapiens cDNA: FLJ22528 fis, cione H	3.76	
	AA678267			3.75	
	AW295687			3.74	•
	AI640635		eukaryotic translation Initiation factor	3.72	
	AA177088			3.71 3.70	
	AW969587		ESTs	3.67	
435677	AA694142	Hs.293726	ESTs, Wealty similar to TSGA RAT TESTIS	3.67	
438607	AW080237	Hs.252884	ESTs	3.66	
408194	AA601038	Hs.191797	ESTs, Weakly similar to S65657 alpha-1C-	3.65	
	T97617	Hs.269092		3.60	
	AB011540 AA876905		low density apoprotein receptor-related	3.59	
	AW979008			3.58 3.57	
	AA532718			3.57	
	AW022133			3.56	
	BE256452		vitronectin (serum spreading factor, som	3.56	
		Hs.214199		3.53	
	AB037829		regulator of nonsense transcripts 2; DKF	3.53	
	R98881 AAM16188		sex comb on midleg (Drosophila)-like 1 hypothetical protein	3.52 3.52	
			EST's, Weakly similar to ALUS_HUMAN ALU S		3.49
			protein arginine N-meihyltransferase 3(h	3.49	0.10
434280	BE005398		gb:CM1-BN0116-150400-189-h02 BN0116 Ho	OMO	3,49
407289	AA135159	Hs.203349	Homo sapiens cDNA FLJ12149 fis, ctone MA	3.48	
417670			gbcyf15c06.r1 Soares fetal liver spleen	3.48	
	AW295859			3.48	
	AW973253 AA464964		gb:zx80f10.s1 Soares ovary tumor NbHOT H	3.45	
	AW207166			3.44	
			tissue inhibitor of metalloproteinase 1	3.44	
445674	BE410347	Hs.13063	transcription factor CA150	3.42	
	T82427	Hs.194101	Homo saplens cDNA: FLJ20869 fis, clone A	3.42	
408908	BE296227	HS.250822		3.41	
432235 453985	AA531129	Hs.251865		3.41	
	AA827082			3.41 3.38	
	BE378277			3.37	
				3.37	
412104	AW205197	Hs.240951	Homo sapiens, Similar to RIKEN cDNA 2210	3.36	
				3.33	
413816	AW958181	HS.189998	ESTS	3.32	
	AI343641			3.32	
430200	MUSSUI JA AWQRRISKI	He 112012		3.31 3.31	
4453CC	AF134160	Hs.7327		3.31 3.30	
436110	AA704899	Hs.291651		3.29	
433862	D86960	Hs.3610	KIAA0205 gene product	3.29	
424624	AB032947	Hs.151301	Ca2+dependent activator protein for secr	3.29	
	AW203959			3.28	
				3.28	
	AW510927   AW452420			3.27	
414300	AW452420	13.2400/0	EOIS	3.26	

439349	AI660898	Hs.195602	ESTs	3.25	
428255	AJ627478	Hs.187670	ESTs	3.24	
436217	T53925	Hs.107	fibrinogen-like 1	3.24	
429083	Y09397	Hs.227817	BCL2-related protein A1	3.24	
422244	Y08890	Hs.113503	karyopherin (importin) beta 3	3.22	
430178	AW449612	Hs.152475	ESTs	3.21	
413810	AW197644	Hs.19107	ESTs	3.20	
428728	NM_016625	5Hs.191381	hypothetical protein	3.20	
437151	AA745618	Hs.194637	BANP homolog, SMAR1 homolog	3.19	
427051	BE178110	Hs.173374	Homo sapiens cDNA FLJ10500 fis, clone NT	3.19	
438378	AW970529	Hs.86434	hypothetical protein FLJ21816	3.19	
439943	AW083789	Hs.124620	ESTs	3.18	
439280	AJ125436	Hs.48752	ESTs	3.18	
452336	AA960961	Hs.305953	zinc finger protein 83 (HPF1)	3.17	
433713	AW976511	Hs.112592	ESTs	3.16	
414998	NM_002543	3Hs.77729	oxidised low density lipoprotein (tectin	3.14	
407328	AA508857	Hs.187748	ESTs, Weakly similar to ALU1_HUMAN ALU S	3	3.14
	AA830532		ESTs	3.14	
419457	AA243146	Hs.209334	ESTs, Moderately similar to S23A_HUMAN P	3.11	
449987	AW079749	Hs.184719	ESTs, Weakly similar to ALU1_HUMAN ALU !	3	3.11
418522	AA605038	Hs.7149	Homo sapiens cDNA: FLJ21950 fis, clone H	3.09	
409969	AW514668				
			hypothetical protein FLJ20729	3.08	
	M31126		pregnancy specific beta-1-glycoprotein 9	3.07	
	AA251594		PIBF1 gene product	3.07	
	R44284	Hs.2730	heterogeneous nuclear ribonucleoprotein	3.06	
	N92114		gbcza22h11.r1 Soares fetal liver spieen	3.05	
	AI878910	Hs.3688	cisplatin resistance-associated overexpr	3.04	
	AW971063		ESTs	3.03	
	Al932285	Hs.160569		3.03	
	A1860558		ESTs, Weakly similar to ALU2_HUMAN ALU S		3.03
413822			ESTs, Weakly similar to ALU1_HUMAN ALU !		3.02
	AL117518	Hs.3688	KIAA0978 protein	3.01	
440428	BE560954		gb:601347719F1 NIH_MGC_8 Homo saplens	αD	3.00

### TABLE 21A

Table 21A shows the accession numbers for those pkeys lacking unigeneID's for Table 21A. For each probeset we have listed the gene cluster number from which the oligonucleotides were designed. Gene clusters were compiled using sequences derived from Genbank ESTs and mRNAs. These sequences were clustered based on sequence similarity using Clustering and Alignment Tools (DoubleTwist, Oakland California). The Genbank accession numbers for sequences comprising each cluster are listed in the "Accession" column.

Unique Eos probeset identifier number Gene cluster number

Pkey: CAT number:

Accession:

Genbank accession numbers

Pkey	CAT Number	Accession
409760	115373_1	AA302840 T93016 T92950 AA077551
413497	1373771_1	BE177661 H06215 BE144709 BE144829
417670	1692163_1	R07785 T85948 T86972
418876	179960 1	AA740616 AA654854 AA229923
419145	182217_1	N99638 AW973750 AA328271 H90994 AA558020 AA234435 N59599 R94815
423974	233842 1	AL118754 AA333202 H38001
430068	312849 1	AA464964 M85405 AA947566
	345248 1	AA534222 AA632632 T81234
	370470 1	T85301 AW517087 AA601054 BE073959
	382816 1	BE005398 AA628622 AA994155
	396504 1	AA657494 AI582663 AI581639
	467390 1	BE046594 BE046667 AA828585 AI207343
	477806_1	AW979249 D63277 AA846968
	493701	REE50954
	499025_1	AU376551 T87714 AA897445
	179104_1	
43033Z	1/3104_1	AA228357 AW841786 AW841716

### TABLE 21B

Pkey: Ret

Unique number corresponding to an Eos probeset
Sequence source. The 7 digit numbers in this column are Genbank Identitier (GI) numbers. "Dunham I. et al." refers to the publication entitled "The DNA sequence of human chromosome 22." Dunham I. et al., Nature (1999) 402:489-495.
Indicates DNA strand from which exons were predicted.
Indicates nucleotide positions of predicted exons.

Strand:

Nt\_position:

Pkey Ref

Strand

Nt\_position

404571

7249169 Minus 112450-112648

# TABLE 22: 177 GENES DOWN-REGULATED IN COLON CANCER DERIVED LIVER METASTASES COMPARED TO NORMAL COLON TISSUE

Table 22 shows 177 genes down-regulated in colon cancer derived liver metastases compared to normal colon tissue. These were selected from 59680 probesets on the Affymetrix/Eos Hu03 GeneChip array such that the ratio of "average" colon cancer derived liver metastases to "average" normal colon tissues was less than or equal to 0.25. The "average" colon cancer derived liver metastases level was set to the 50th percentile. The "average" normal adult tissue level was set to the 50th percentile.

Pkey: ExAcon: UnigenelD:

Unique Eos probeset identifier number

Exemplar Accession number, Genbank accession number

UnigeneiD: Unigene Tille: Unigene number Unigene gene tille

Genes down mets vs. normal

Pkey	ExAcen	UnigeneiD	Unigene Title	R1
425196	AL037915	Hs.155097	carbonic anhydrase II	0.03
414522	AW518944	Hs.76325	step II splicing factor SLU7	0.03
409153	W03754	Hs.50813	hypothetical protein FLJ20022	0.03
452594	AU076405	Hs.29981	solute carrier family 26 (sulfate transp	0.03
424326	NM_01447	9Hs.145298		0.04
414798	Al286323	Hs.97411	hypothetical protein MGC12335	0.04
432150	AK000224	Hs.272789	hypothetical protein FLJ20217	0.04
425206	NM_00215	3Hs.155109		0.05
437145	AF007216	Hs.5462	solute carrier family 4, sodium bicarbon	0.05
447513	AW955776	Hs.313500	ESTs, Moderately similar to ALU7_HUMAN A	0.05
414807	AI738616	Hs.77348	hydroxyprostaglandin dehydrogenase 15-(N	0.06
428934	AF039401	Hs.194659	chloride channel, calcium activated, fam	0.06
432251	AW972983	Hs.232165	polycythemia nibra vera 1; cell surface	0.07
431727	AW293464	Hs.162031	ESTS	0.07
421515	Y11339	Hs.105352	GalNAc alpha-2, 6-sialyitransferase I, I	0.07
414555	N98569	Hs.76422	phospholipase A2, group IIA (platelets,	0.08
412047	AA934589	Hs.49696	ESTs	0.08
412056	T28160	Hs.778	guanylate cyclase activator 1B (retina).	0.08
	NM_004812		aldo-keto reductase family 1, member B10	0.08
450684	AA872605		Interleukin 1 receptor, type II	0.09
418935		Hs.89485	carbonic anhydrase IV	0.09
	L03678	Hs.156110	immunoglobulin kappa constant	0.09
	AA315993	Hs.105484	regenerating gene type IV	0.09
	AF017986	Hs.31386	secreted frizzled-related protein 2	0.09
	U03749	Hs.172216	The state of the s	0.09
441888	AI733306	Hs.128071	/p==::=====	0.10
	AF017987	Hs.7306	secreted frizzled-related protein 1	0.10
	AI694143	Hs.296251	programmed cell death 4	0.10
	AK000072	Hs.227059	chloride channel, calcium activated, fam	0.10
	W25005	Hs.24395	small inducible cytokine subfamily B (Cy	0.10
	AI793107	Hs.27018	Ris	0.10
	M16801	Hs.1790	nuclear receptor subfamily 3, group C, m	0.11
421996	AW583807		glucagon	0.11
423371		Hs.1650	solute carrier family 26, member 3	0.11
406741		Hs.74466	carcinoembryonic antigen-related cell ad	0.11
		Hs.75794	endothelial differentiation, lysophospha	0.11
408741	7	Hs.646	carboxypeptidase A3 (mast cell)	0.11
424527			ESTs, Weakly similar to I54374 gene NF2	0.12
		Hs.2056	UDP glycosyltransferase 1 family, polype	0.12
453967			ESTs	0.12
		Hs.162209		0.13
		Hs.42945	acid sphingomyelinase-like phosphodieste	0.13
457407			ESTs	0.13
446500		Hs.15154	sushi-repeat-containing protein, X chrom	0.14
422487		Hs.198267	mucin 4, tracheobronchial	0.14
409196			carboxypeptidase M	0.14
416426		Hs.210473		0.14
406636	L12004		gbd-lome saplens (clone WR4.12VL) anti-th	0.14

457000	411000000	11- 400047	ror	044	
	AW856093 AB020629		ATP-binding cassette, sub-family A (ABC1	0.14	
	Z29572	Hs.2556	tumor necrosis factor receptor superfami	0.14	
	Al333771	Hs.82204	ESTs	0.14	
			hepatocellular carcinoma antigen gene 52	0.14	
	AA336878		Human DNA sequence from clone RP4-788L		0.14
	AA774824		Homo saplens clone 23649 and 23755 unkno		0.44
	AL110125	Hs.25910	Homo sapiens mRNA; cDNA DKFZp564C141		0.14
	X59135 AA722425		immunoglobulin kappa constant ESTs, Moderately similar to 1207289A rev	0.14 0.15	
	AW972717			0.15	
	AK000134		hypothetical protein FLJ20127	0.15	
430712	AW044647	Hs.196284	ESTs	0.15	
	AL035250		endothelin 3	0.16	
	D90041		N-acetyltransferase 1 (arylamine N-acety	0.15	
	NM_006235 AF075320		POU domain, class 2, associating factor . hypothetical protein FLJ14540	0.16 0.16	
	AW293791		Homo sapiens cDNA: FLJ21528 fis, clone C	0.16	
	D87449	Hs.82635	UDP-glucuronic acid/UDP-N-acetylgalactos	0.16	
	H27498	Hs.293441	Homo sapiens SNC73 protein (SNC73) mRN/	١,	0.16
	X03350	Hs.4	alcohol dehydrogenase 1B (class I), beta	0.16	
	AA813075			0.16	
			calmodulin 2 (phosphorylase kinase, delt KIAA1211 protein	0.16 0.16	
		Hs.17109	integral membrane protein 2A	0.17	
	D80400		Human DNA sequence from clone RP1-304B		0.17
410310		Hs.62192	coagutation factor III (thromboplastin,	0.17	•
432563	NM_013261	Hs.198468	peroxisome proliferative activated recep	0.17	
	M57417		gbdHomo sapiens mucin (mucin) mRNA, part		
	BE383234	Hs.25925	Homo saplens, clone MGC:15393, mRNA, co		0.17
	AL137638 AB029015	Hs.19368 Hs.54886	matrilln 2 phospholipase C, epsilon 2	0.17 0.17	
	AB023015 Al927208	Hs.231958	matrix metalloproteinase 28	0.17	
	AJD00512		serum/glucocorticoid regulated kinase	0.17	
407360	X13075		gbdHuman 2a12 mRNA for kappa-immunoglol	שני	0.17
	U61148		atonal homolog 1 (Drosophila)	0.17	
	NM_004944		deoxyribonuclease I-like 3	0.18	
	Z70295 AW891802	Hs.32966	guanylate cyclase activator 2B (uroguany	0.18 0.18	
		IIS.122303	hypothetical protein FLJ21934	0.18 0.18	
400417	X72475 H10661		ESTs, Wealdy similar to 138022 hypotheti	_ : : _	
400417 443506 428470	X72475 H10661 AC002301	Hs.192124 Hs.184507	ESTs, Wealdy similar to I38022 hypotheti Homo saptens Chromosome 16 BAC clone Cl	0.18 0.18 T	0.18
400417 443506 428470 451928	X72475 H10661 AC002301 Al823801	Hs.192124 Hs.184507 Hs.30315	ESTs, Wealdy similar to 138022 hypotheti Homo saptens Chromosome 16 BAC done Cl CTCL tumor antigen se57-1	0.18 0.18 T 0.18	<b>0.18</b> .
400417 443506 428470 451928 429576	X72475 H10661 AC002301 A1823801 BE242628	Hs.192124 Hs.184507 Hs.30315 Hs.209061	ESTs, Wealty similar to 138022 hypotheti Homo sapiens Chromosome 16 BAC done Cl CTCL tumor antigen se57-1 sudD (suppressor of blmD6, Aspergillus n	0.18 0.18 T 0.18 0.18	0.18
400417 443506 428470 451928 429576 422106	X72475 H10661 AC002301 AI823801 BE242628 D84239	Hs.192124 Hs.184507 Hs.30315 Hs.209061 Hs.111732	ESTs, Weakly similar to 138022 hypotheti Homo sapiers Chromosome 16 BAC done Ci CTCL tumor antigen se57-1 sudD (suppressor of bimD6, Aspergillus n Fc fragment of IgG binding protein	0.18 0.18 T 0.18 0.18 0.19	
400417 443506 428470 451928 429576 422106 430304	X72475 H10661 AC002301 A1823801 BE242628	Hs.192124 Hs.184507 Hs.30315 Hs.209061 Hs.111732	ESTs, Wealty similar to 138022 hypotheti Homo sapiens Chromosome 16 BAC done Cl CTCL tumor antigen se57-1 sudD (suppressor of blmD6, Aspergillus n	0.18 0.18 T 0.18 0.18 0.19	0.18 <sub>.</sub>
400417 443506 428470 451928 429576 422106 430304 452852	X72475 H10661 AC002301 Al823801 BE242628 D84239 AL122071 AK001972	Hs.192124 Hs.184507 Hs.30315 Hs.209061 Hs.111732 Hs.238927 Hs.30822	ESTs, Weakly similar to I38022 hypotheti Homo sapiers Chromosome 16 BAC done Ci CTCL tumor artigen se57-1 sudD (suppressor of blmD6, Aspergillus n Fc fragment of IgG binding protein Homo sapiens mRNA; cDNA DKFZp434H123	0.18 0.18 T 0.18 0.18 0.19 5 (f	
400417 443506 428470 451928 429576 422106 430304 452852 421904 417165	X72475 H10681 AC002301 Al823801 BE242628 D84239 AL122071 AK001972 BE143533 R80137	Hs.192124 Hs.184507 Hs.30315 Hs.209061 Hs.111732 Hs.238927 Hs.30822 Hs.109309 Hs.302738	ESTs, Wealdy similar to I38022 hypotheti Homo sapiens Chromosome 16 BAC done Cl CTCL tumor antigen se57-1 sudD (suppressor of blmD6, Aspergillus n Fc fragment of IgG binding protein Homo sapiens mRNA; cDNA DKFZp434H123 hypothetical protein FLJ11110 hypothetical protein FLJ20035 Homo sapiens cDNA: FLJ21425 fis, done C	0.18 0.18 T 0.18 0.19 5 (f 0.19 0.19 0.19	
400417 443506 428470 451928 429576 422106 430304 452852 421904 417165 417771	X72475 H10661 AC002301 AIB23801 BE242628 D84239 AL122071 AK001972 BE143533 R80137 AA804698	Hs.192124 Hs.184507 Hs.30315 Hs.209061 Hs.111732 Hs.238927 Hs.30822 Hs.109309 Hs.302738 Hs.82547	ESTs, Weakly similar to 138022 hypotheti Homo sapiens Chromosome 16 BAC done Cl CTCL tumor antigen se57-1 sudD (suppressor of bimD6, Aspergillus n Fc fragment of IgG binding protein Homo sapiens mRNA; cDNA DKFZp434H123 hypothetical protein FLJ11110 hypothetical protein FLJ20035 Homo sapiens cDNA; FLJ21425 fis, clone C retinoic acid receptor responder (tazaro	0.18 0.18 T 0.18 0.18 0.19 5 (f 0.19 0.19 0.19	
400417 443506 428470 451928 429576 422106 430304 452852 421904 417165 417771 452802	X72475 H10661 AC002301 AIB23801 BE242628 D84239 AL122071 AK001972 BE143533 R80137 AA804698 AU076403	Hs.192124 Hs.184507 Hs.30315 Hs.209061 Hs.111732 Hs.238927 Hs.30822 Hs.109309 Hs.302738 Hs.82547 Hs.323468	ESTs, Weakly similar to 138022 hypotheti Homo sapiers Chromosome 16 BAC done Cl CTCL tumor antigen se57-1 sudD (suppressor of bimD6, Aspergillus n Fc fragment of IgG binding protein Homo sapiers mRNA; cDNA DKFZp434H123 hypothetical protein FLJ11110 hypothetical protein FLJ11110 hypothetical protein FLJ20035 Homo sapiens cDNA; FLJ21425 fis, clone C refincic acid receptor responder (tazaro electron-transferring-flavoprotein dahyd	0.18 0.18 T 0.18 0.18 0.19 5 (f 0.19 0.19 0.19 0.19	
400417 443506 428470 451928 429576 422106 430304 452852 421904 417165 417771 452802 450680	X72475 H10661 AC002301 Al823801 BE242628 D84239 AL122071 AK001972 BE143533 R80137 AA804698 AU076403 AF131784	Hs.192124 Hs.184507 Hs.30315 Hs.209061 Hs.111732 Hs.238927 Hs.30822 Hs.109309 Hs.302738 Hs.82547 Hs.825446 Hs.25318	ESTs, Weakly similar to I38022 hypotheti Homo sapiers Chromosome 16 BAC done Ci CTCL tumor antigen se57-1 sudD (suppressor of bimD6, Aspergillus n Fc fragment of IgG binding protein Homo sapiens mRNA; cDNA DKFZp434H123 hypothetical protein FLJ11110 hypothetical protein FLJ210035 Homo sapiens cDNA: FLJ21425 fis, clone C retincic acid receptor responder (tazaro electron-transferring-flavoprotein dehyd Homo sapiens clone 25194 mRNA sequence	0.18 0.18 T 0.18 0.19 5 (f 0.19 0.19 0.19 0.19 0.19	
400417 443506 428470 451928 429576 422106 430304 452852 421906 417716 452802 450680 420061	X72475 H10661 AC002301 Al823801 BE242628 D84239 AL122071 AK001972 BE143533 R80137 AA804698 AU076403 AF131784 AW024937	Hs.192124 Hs.184507 Hs.203051 Hs.209061 Hs.111732 Hs.238927 Hs.30822 Hs.109309 Hs.302738 Hs.82547 Hs.323468 Hs.25318 Hs.29410	ESTs, Weakly similar to I38022 hypotheti Homo sapiers Chromosome 16 BAC done Ci CTCL tumor antigen se57-1 sudD (suppressor of blmD6, Aspergillus n Fc fragment of IgG binding protein Homo sapiens mRNA; cDNA DKFZp434H123 hypothetical protein FLJ11110 hypothetical protein FLJ20035 Homo sapiens cDNA: FLJ21425 fis, clone C retinoic acid receptor responder (tazaro electron-transferring-flavoprotein dehyd Homo sapiens clone 25194 mRNA sequence ESTs	0.18 0.18 T 0.18 0.18 0.19 5 (f 0.19 0.19 0.19 0.19	
400417 443506 428470 451928 429506 422106 430304 452852 421904 417165 417771 452802 450801 420861 426828 408190	X72475 H10661 AC002301 Al823801 BE242628 D84239 AL122071 AK001972 BE143533 R80137 AA804698 AU076403 AF131784 AW024937 NM_000020 AB032963	Hs.192124 Hs.184507 Hs.30315 Hs.209061 Hs.111732 Hs.238927 Hs.30822 Hs.302738 Hs.82547 Hs.323468 Hs.25318 Hs.29410 Hs.172670 Hs.43577	ESTs, Weakly similar to I38022 hypotheti Homo sapiers Chromosome 16 BAC done Ci CTCL tumor antigen se57-1 sudD (suppressor of bimD6, Aspergillus n Fc fragment of IgG binding protein Homo sapiens mRNA; cDNA DKFZp434H123 hypothetical protein FLJ11110 hypothetical protein FLJ210035 Homo sapiens cDNA: FLJ21425 fis, clone C retincic acid receptor responder (tazaro electron-transferring-flavoprotein dehyd Homo sapiens clone 25194 mRNA sequence	0.18 0.18 T 0.18 0.19 5 (f 0.19 0.19 0.19 0.19 0.19 0.19	
400417 443506 428470 451928 429506 422106 430304 452852 421904 417165 417771 452802 450680 420061 426828 48190 437682	X72475 H10661 AC002301 Al823801 BE242628 D84239 AL122071 AK001972 BE14357 AR804538 AU076403 AF131784 AW024937 NM_00020 AB032963 AA476652	Hs.192124 Hs.184507 Hs.30315 Hs.209061 Hs.111732 Hs.238927 Hs.30822 Hs.302738 Hs.82547 Hs.323468 Hs.25318 Hs.29410 Hs.172670 Hs.43577	ESTs, Weakly similar to 138022 hypotheti Homo sapiers Chromosome 16 BAC done Ci CTCL turnor antigen se57-1 sudD (suppressor of bimD6, Aspergillus n Fc fragment of IgG binding protein Homo sapiers mRNA; cDNA DKFZp434H123 hypothetical protein FLJ11110 hypothetical protein FLJ20035 Homo sapiers cDNA; FLJ21425 fis, clone C retinoic acid receptor responder (tazaro electron-transferring-flavoprotein dehyd Homo sapiens clone 25194 mRNA sequence ESTs activin A receptor type II-like 1 ATPase, Class I, type 88, member 2 Homo sapiens cDNA; FLJ23371 fis, clone H	0.18 0.18 T 0.18 0.19 5 (f 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	
400417 443506 428470 4519276 429576 422106 430304 452852 421904 417165 4171771 452802 450680 420061 426828 408190 437682 449110	X72475 H10661 AC002301 A1823801 BE242628 D84239 AL122071 AK001972 BE143533 A804698 AU076403 AF131784 AW024937 NM_000020 AB032963 AA476652 H56112	Hs.192124 Hs.184507 Hs.30315 Hs.209061 Hs.111732 Hs.238927 Hs.30822 Hs.109309 Hs.302738 Hs.82547 Hs.323468 Hs.25318 Hs.25318 Hs.25410 Hs.172670 Hs.43577 Hs.94952	ESTs, Weakly similar to 138022 hypotheti Homo sapiers Chromosome 16 BAC done Ci CTCL turnor antigen se57-1 sudD (suppressor of bimD6, Aspergillus n Fc fragment of IgG binding protein Homo sapiens mRNA; cDNA DKFZp434H123 hypothetical protein FLJ11110 hypothetical protein FLJ11110 hypothetical protein FLJ11110 hypothetical protein FLJ120035 Homo sapiens cDNA; FLJ21425 fis, clone C refincic acid receptor responder (tazaro electron-transferring-flavoprotein dahyd Homo sapiens clone 25194 mRNA sequence ESTs activin A receptor type II-like 1 ATPase, Class I, type 8B, member 2 Homo sapiens cDNA; FLJ23371 fis, clone H gb:yq95107.r1 Soares fetal liver spleen	0.18 0.18 T 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	
400417 443506 428470 451928 429576 422106 430304 452852 421904 417767 452802 450680 42061 426828 408190 437682 449110 445727	X72475 H10661 AC002301 A1823801 BE242628 D84239 AL122071 AK001972 BE143533 R80137 AA804698 AU076403 AF131784 AW024937 NM_000020 AB032963 AA476651 AB011095	Hs. 192124 Hs. 184507 Hs. 30315 Hs. 209061 Hs. 111732 Hs. 238927 Hs. 30822 Hs. 109309 Hs. 302738 Hs. 302738 Hs. 25318 Hs. 25318 Hs. 29410 Hs. 172670 Hs. 43577 Hs. 94952 Hs. 16032	ESTs, Weakly similar to I38022 hypotheti Homo sapiers Chromosome 16 BAC done Ci CTCL tumor antigen se57-1 sudD (suppressor of blmD6, Aspergillus n Fc fragment of IgG binding protein Homo sapiens mRNA; cDNA DKFZp434H123 hypothetical protein FLJ11110 hypothetical protein FLJ21035 Homo sapiens cDNA: FLJ21425 fis, clone C retincic acid receptor responder (tazaro electron-transferring-flavoprotein dehyd Homo sapiens cDNA: FLJ2337 fis, clone ESTs activin A receptor type II-Be 1 ATPase, Class I, type 8B, member 2 Homo sapiens cDNA: FLJ23371 fis, clone H gbcyq95fi7.r1 Soares fetal liver spleen KIAA0523 protein	0.18 0.18 T 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	
400417 443506 428470 451928 429576 422106 430304 452852 421904 417771 452802 450801 426060 426060 426080 426828 408190 437682 449102 446727 408395	X72475 H10661 AC002301 Al823801 BE242628 D84239 AL122071 AK001972 BE143533 R80137 AA804698 AU076403 AF131784 AW024937 NM_000020 AB032963 AA476652 H56112 AB011095 BE072425	Hs.192124 Hs.184507 Hs.184507 Hs.209061 Hs.111732 Hs.208927 Hs.30822 Hs.108329 Hs.302738 Hs.82547 Hs.322468 Hs.25318 Hs.29410 Hs.172670 Hs.43577 Hs.94952 Hs.16032 Hs.46032	ESTs, Weakly similar to 138022 hypotheti Homo sapiens Chromosome 16 BAC done Cl CTCL tumor antigen se57-1 sudD (suppressor of bimD6, Aspergillus n Fc fragment of IgG binding protein Homo sapiens mRNA; cDNA DKFZp434H123 hypothetical protein FLJ11110 hypothetical protein FLJ21425 fis, clone C retinoic acid receptor responder (tazaro electron-transferring-flavoprotein dehyd Homo sapiens clone 25194 mRNA sequence ESTs activin A receptor type II-Ble 1 ATPase, Class I, type 8B, member 2 Homo sapiens cDNA; FLJ23371 fis, clone H gbyq95507,r1 Soares fetal liver spleen (JAA0523 protein hypothetical protein FLJ20199	0.18 0.18 T 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	
400417 443506 428470 451928 429576 422106 430304 452852 421904 417771 452802 450680 420680 420680 420680 42081 426828 408190 437682 449110 445723 408385 423541	X72475 H10661 AC002301 Al823801 BE242628 D84239 AL122071 AK001972 BE143533 R80137 AA804698 AU076403 AF131784 AW024937 NM_000020 AB032963 AA476652 H56112 AB011095 BE072425 AA296922	Hs.192124 Hs.184507 Hs.30315 Hs.209061 Hs.111732 Hs.238927 Hs.109309 Hs.302738 Hs.82547 Hs.323468 Hs.25318 Hs.29410 Hs.172670 Hs.43577 Hs.94952 Hs.16032 Hs.16032 Hs.44579 Hs.129778	ESTs, Weakly similar to 138022 hypotheti Homo sapiens Chromosome 16 BAC done Cl CTCL tumor artigen se57-1 sudD (suppressor of bimD6, Aspergillus n Fc fragment of IgG binding protein Homo sapiens mRNA; cDNA DKFZp434H123 hypothetical protein FLJ11110 hypothetical protein FLJ20035 Homo sapiens cDNA: FLJ21425 fis, clone C retinoic acid receptor responder (tazaro electron-transferring-flavoprotein dahyd Homo sapiens clone 25194 mRNA sequence ESTs activin A receptor type Il-like 1 ATPase, Class I, type 8B, member 2 Homo sapiens cDNA: FLJ23371 fis, clone H gbcyg55fV.rl Soares fetal liver spleen KIAA0523 protein hypothetical protein FLJ20199 gastrointestinal peptide	0.18 0.18 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	
400417 443506 428470 4519276 429576 422106 430304 452852 421904 417165 450680 420061 426828 408190 445727 408395 42354 412420	X72475 H10661 AC002301 Al823801 BE242628 D84239 AL122071 AK001972 BE143533 A80137 AA804698 AU076403 AF131784 AW024937 NM_000020 AB032963 AA476652 H56112 AB011095 BE072425 AA296922 AW362867 AL035668	Hs.192124 Hs.184507 Hs.30315 Hs.209061 Hs.111732 Hs.238927 Hs.30822 Hs.109302738 Hs.82547 Hs.323468 Hs.25318 Hs.25318 Hs.25318 Hs.25410 Hs.172670 Hs.43577 Hs.94952 Hs.16032 Hs.16032 Hs.415978 Hs.302738 Hs.302738 Hs.73853	ESTs, Weakly similar to 138022 hypotheti Homo sapiers Chromosome 16 BAC done Ci CTCL turnor antigen se57-1 sudD (suppressor of bimD6, Aspergillus n Fc fragment of IgG binding protein Homo sapiens mRNA; cDNA DKFZp434H123 hypothetical protein FLJ11110 hypothetical protein FLJ11110 hypothetical protein FLJ20035 Homo sapiens cDNA; FLJ21425 fis, clone C retincic acid receptor responder (tazaro electron-transferring-flavoprotein dahyd Homo sapiens clone 25194 mRNA sequence ESTs activin A receptor type II-like 1 ATPase, Class I, type 88, member 2 Homo sapiens cDNA; FLJ23371 fis, clone H gb;yq95107.r1 Soares fetal fiver spleen (JAA0523 protein hypothetical protein FLJ20199 gastrointestinal pepilide Homo sapiens cDNA; FLJ21425 fis, clone C bone morphogenetic protein 2	0.18 0.18 T 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	
400417 443506 428470 4519276 429276 422106 430304 452852 421904 417771 452802 450680 420061 426828 408109 445727 408395 423541 410850 412420 423942	X72475 H10661 AC002301 A1823801 BE242628 D84239 AL122071 AK001972 BE143533 A804698 AU076403 AF131784 AW024937 NM_000020 AB032963 AB032963 AB032963 AB032963 AB011095 BE072425 AA296922 AW362867 AL035668 AF209704	Hs.192124 Hs.184507 Hs.30315 Hs.30315 Hs.30315 Hs.203061 Hs.111732 Hs.20822 Hs.109309 Hs.302738 Hs.323468 Hs.25318 Hs.25318 Hs.25318 Hs.25318 Hs.25318 Hs.43577 Hs.43577 Hs.94952 Hs.16032 Hs.44579 Hs.16032 Hs.44579 Hs.192778 Hs.192778 Hs.192778 Hs.192778	ESTs, Weakly similar to I38022 hypotheti Homo sapiers Chromosome 16 BAC done Ci CTCL tumor antigen se57-1 sudD (suppressor of bimD6, Aspergillus n Fc fragment of IgG binding protein Homo sapiens mRNA; cDNA DKFZp434H123 hypothetical protein FLJ11110 hypothetical protein FLJ21425 fis, clone C refincic acid receptor responder (tazaro electron-transferring-flavoprotein dehyd Homo sapiens clone 25194 mRNA sequence ESTs activin A receptor type II-like 1 ATPase, Class I, type 8B, member 2 Homo sapiens cDNA: FLJ23371 fis, clone H gb;yq95107.r1 Soares fetal liver spleen (JAA0523 protein hypothetical protein FLJ20199 gastrointestinal peptide Homo sapiens cDNA: FLJ21425 fis, clone C bone morphogenetic protein 2 glycolipid transfer protein 2	0.18 0.18 T 0.18 0.19 5 (f 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	
400417 443506 428470 451928 429576 422106 430304 452852 421904 417765 417771 452802 450801 426828 408190 437682 449110 408395 423541 410850 412450 41	X72475 H10661 AC002301 AI823801 BE242628 D84239 AL122071 AK001972 BE143533 R80137 AA804698 AU076403 AF131784 AW024937 NM_000020 AB032963 AA476652 H56112 AB011095 BE072425 AA296922 AW362867 AL035667 AL035667 AL035667 ANM_016098	Hs.192124 Hs.184507 Hs.184507 Hs.209061 Hs.111732 Hs.238927 Hs.3082738 Hs.82547 Hs.302738 Hs.82547 Hs.322468 Hs.25318 Hs.29410 Hs.172670 Hs.43577 Hs.94952 Hs.16032 Hs.16032 Hs.4579 Hs.129778 Hs.302738 Hs.73853 Hs.135723	ESTs, Weakly similar to 138022 hypotheti Homo sapiens Chromosome 16 BAC done Cl CTCL tumor antigen se57-1 sudD (suppressor of bimD6, Aspergillus n Fc fragment of IgG binding protein Homo sapiens mRNA; cDNA DKFZp434H123 hypothetical protein FLJ11110 hypothetical protein FLJ11110 hypothetical protein FLJ20035 Homo sapiens cDNA: FLJ21425 fis, clone C retinoic acid receptor responder (tazaro electron-transferring-flavoprotein dehyd Homo sapiens clone 25194 mRNA sequence ESTs activin A receptor type II-like 1 ATPase, Class I, type 8B, member 2 Homo sapiens cDNA: FLJ23371 fis, clone H gbyq95107.r1 Soares fetal liver splaen KJAA0523 protein hypothetical protein FLJ20199 gastrointestinal peptide Homo sapiens cDNA: FLJ21425 fis, clone C bone morphogenetic protein 2 glycolipid transfer protein ESPC040 protein	0.18 0.18 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	
400417 443506 428470 451928 429576 422106 430304 452852 421904 417771 452802 450680 420061 426828 449110 445727 4083541 410850 412420 421842 421842 421842 421842 421842 421842	X72475 H10661 AC002301 Al823801 BE242628 D84239 AL122071 AK001972 BE143533 R80137 AA804698 AU076403 AF131784 AW024937 NM_00020 AB032963 AA476652 H56112 AB011095 BE072425 AA296922 AW362867 AL035668 AF209704 NM_016098 AA910339	Hs.192124 Hs.184507 Hs.30315 Hs.209061 Hs.111732 Hs.238927 Hs.302738 Hs.82547 Hs.302738 Hs.82547 Hs.323468 Hs.29410 Hs.172670 Hs.43577 Hs.94952 Hs.16032 Hs.16032 Hs.173853 Hs.135723 Hs.135723 Hs.108725 Hs.108725	ESTs, Weakly similar to 138022 hypotheti Homo sapiens Chromosome 16 BAC done Cl CTCL tumor antigen se57-1 sudD (suppressor of bimD6, Aspergillus n Fc fragment of IgG binding protein Homo sapiens mRNA; cDNA DKFZp434H123 hypothetical protein FLJ11110 hypothetical protein FLJ20035 Homo sapiens cDNA: FLJ21425 fis, clone C retinoic acid receptor responder (tazaro electron-transferring-flavoprotein dahyd Homo sapiens clone 25194 mRNA sequence ESTs activin A receptor type II-Ele 1 ATPase, Class I, type 8B, member 2 Homo sapiens cDNA: FLJ23371 fis, clone H gbcyq55107.r1 Soares fetal liver splaen kDAA0523 protein hypothetical protein FLJ20199 gastrointestinal peptide Homo sapiens cDNA: FLJ21425 fis, clone C bone morphogenetic protein 2 glyccifpid transfer protein LOC50627	0.18 0.18 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	
400417 443506 428470 451928 422106 430304 452852 421904 417165 417771 452802 450680 42061 426828 408190 437682 449110 446727 408393 423541 410850 412420 423942 421832 4251360	X72475 H10661 AC002301 Al823801 BE242628 D84239 AL122071 AK001972 BE14353 R80137 AA804698 AU076403 AF131784 AW024937 NM_00020 AB032963 AA476652 H56112 AB011095 BE072425 AA296922 AW362867 AL035668 AF209704 NM_016098 AA910339 AA297012	Hs.192124 Hs.184507 Hs.30315 Hs.209061 Hs.111732 Hs.238927 Hs.30822 Hs.109309 Hs.302738 Hs.82547 Hs.323468 Hs.25318 Hs.29410 Hs.172670 Hs.43577 Hs.94952 Hs.16032 Hs.16032 Hs.129778 Hs.302738 Hs.302738 Hs.135723 Hs.135723	ESTs, Weakly similar to I38022 hypotheti Homo sapiens Chromosome 16 BAC done Cl CTCL tumor artigen se57-1 sudD (suppressor of bimD6, Aspergillus n Fc fragment of IgG binding protein Homo sapiens mRNA; cDNA DKFZp434H123 hypothetical protein FLJ11110 hypothetical protein FLJ11110 hypothetical protein FLJ20035 Homo sapiens cDNA; FLJ21425 fis, clone C retinoic acid receptor responder (tazaro electron-transferring-flavoprotein dehyd Homo sapiens clone 25194 mRNA sequence ESTs activin A receptor type II-like 1 ATPase, Class I, type 8B, member 2 Homo sapiens cDNA; FLJ23371 fis, clone H gbcyg55t7_r1 Soares fetal fiver spleen KIAA0523 protein hypothetical protein FLJ20199 gastrointestinal peptide Homo sapiens cDNA; FLJ21425 fis, clone C bone morphogenetic protein 2 glycolipid transfer protein HSPC040 protein LOCS0627 erythrocyte membrane protein band 4,1-II	0.18 0.18 T 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	
400417 443506 428470 451928 422106 430304 452852 421904 417715 452802 450680 42061 425828 408190 437682 449110 446727 408354 410850 412420 423942 421832 459046 421360 438091	X72475 H10661 AC002301 Al823801 BE242628 D84239 AL122071 AK001972 BE143533 R80137 AA804698 AU076403 AF131784 AW024937 NM_00020 AB032963 AA476652 H56112 AB011095 BE072425 AA296922 AW362867 AL035668 AF209704 NM_016098 AA910339	Hs.192124 Hs.184507 Hs.30315 Hs.209061 Hs.111732 Hs.238927 Hs.30822 Hs.109309 Hs.302738 Hs.82547 Hs.323468 Hs.25318 Hs.29410 Hs.172670 Hs.43577 Hs.94952 Hs.16032 Hs.16032 Hs.129778 Hs.302738 Hs.302738 Hs.135723 Hs.135723	ESTs, Weakly similar to 138022 hypotheti Homo sapiens Chromosome 16 BAC done Cl CTCL tumor antigen se57-1 sudD (suppressor of bimD6, Aspergillus n Fc fragment of IgG binding protein Homo sapiens mRNA; cDNA DKFZp434H123 hypothetical protein FLJ11110 hypothetical protein FLJ20035 Homo sapiens cDNA: FLJ21425 fis, clone C retinoic acid receptor responder (tazaro electron-transferring-flavoprotein dahyd Homo sapiens clone 25194 mRNA sequence ESTs activin A receptor type II-Ele 1 ATPase, Class I, type 8B, member 2 Homo sapiens cDNA: FLJ23371 fis, clone H gbcyq55107.r1 Soares fetal liver splaen kDAA0523 protein hypothetical protein FLJ20199 gastrointestinal peptide Homo sapiens cDNA: FLJ21425 fis, clone C bone morphogenetic protein 2 glyccifpid transfer protein LOC50627	0.18 0.18 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	
400417 443506 428470 451928 429576 422106 430304 452852 421904 417771 452802 450801 426828 408190 437682 449110 408395 423541 410850 412450 423942 421832 429046 421360 438091 403091 403091 421712	X72475 H10661 AC002301 AI823801 BE242628 D84239 AL122071 AK001972 BE143533 R80137 AA804698 AU076403 AF131784 AW024937 NM_000020 AB032963 AA476652 H56112 AB011095 BE072425 AA296922 AW362867 AL035668 AF209704 NM_016098 AA910339 AA297012 AW373062 AK000140	Hs.192124 Hs.184507 Hs.184507 Hs.209061 Hs.111732 Hs.238927 Hs.3082738 Hs.82547 Hs.302738 Hs.82547 Hs.322468 Hs.25318 Hs.29410 Hs.172670 Hs.43577 Hs.94952 Hs.16032 Hs.16032 Hs.172670 Hs.172670 Hs.172670 Hs.172670 Hs.172670 Hs.172670 Hs.172670 Hs.183577 Hs.183577 Hs.183577 Hs.183623 Hs.183623 Hs.183623	ESTs, Weakly similar to 138022 hypotheti Homo sapiens Chromosome 16 BAC done Cl CTCL tumor antigen se57-1 sudD (suppressor of bimD6, Aspergillus n Fc fragment of IgG binding protein Homo sapiens mRNA; cDNA DKFZp434H123 hypothetical protein FLJ11110 hypothetical protein FLJ21425 fis, clone C retinoic acid receptor responder (tazaro electron-transferring-flavoprotein dahyd Homo sapiens clone 25194 mRNA sequence ESTs activin A receptor type II-Ele 1 ATPase, Class I, type 88, member 2 Homo sapiens cDNA; FLJ23371 fis, clone H gbyq95507.r1 Soares fetal liver spleen KJAA0523 protein hypothetical protein FLJ20199 gastrointestinal peptide Homo sapiens cDNA; FLJ21425 fis, clone C bone morphogenetic protein 2 glycolipid transfer protein ESPC040 protein LOC50627 erythrocyte membrane protein band 4.1-II nuclear receptor subfamily 1, group 1, m hypothetical protein	0.18 0.18 T 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	
400417 443506 428470 451928 429576 422106 430304 452852 421904 417771 452802 450680 426808 426828 408190 437682 449110 445727 408395 423541 410850 412420 421832 459046 421360 438091 403091 427333	X72475 H10661 AC002301 AI823801 BE242628 D84239 AL122071 AK001972 BE143533 R80137 AA804698 AU076403 AF131784 AW024937 NM_000020 AB032963 AA476652 H56112 AB011095 BE072425 AA296922 AW362867 AL035668 AF209704 NM_016098 AA910339 AA297012 AW373062 AK000140 AF067797	Hs.192124 Hs.184507 Hs.184507 Hs.209061 Hs.111732 Hs.238927 Hs.30822 Hs.109309 Hs.302738 Hs.82547 Hs.323468 Hs.25318 Hs.29410 Hs.172670 Hs.43577 Hs.94952 Hs.16032 Hs.16032 Hs.172670 Hs.302738 Hs.135723 Hs.108725 Hs.26216 Hs.103839 Hs.83623 Hs.107139 Hs.176658	ESTs, Weakly similar to I38022 hypotheti Homo sapiers Chromosome 16 BAC done Ci CTCL turnor antigen se57-1 sudD (suppressor of bimD6, Aspergillus n Fc fragment of IgG binding protein Homo sapiers mRNA; cDNA DKFZp434H123 hypothetical protein FLJ11110 hypothetical protein FLJ20035 Homo sapiers cDNA; FLJ21425 fis, clone C retinoic acid receptor responder (tazaro electron-transferring-flavoprotein dehyd Homo sapiers clone 25194 mRNA sequence ESTs activin A receptor type II-Iike 1 ATPase, Class I, type 88, member 2 Homo sapiers cDNA; FLJ23371 fis, clone H gb;yq95f07,r1 Soares fetal liver spleen (IAA0523 protein hypothetical protein FLJ20199 gastrointestinal peptide Homo sapiers cDNA; FLJ21425 fis, clone C bone morphogenetic protein 2 glycolipid transfer protein LOC50627 errythrocyte membrane protein band 4,1-II nuclear receptor subfamily 1, group 1, m	0.18 0.18 T 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	
400417 443506 428470 451928 422106 430304 452852 421906 417771 452802 450680 420680 420680 420680 420882 449110 445727 408395 412420 423942 421360 423942 421360 438091 403047 427333 421964	X72475 H10661 AC002301 AI823801 BE242628 D84239 AL122071 AK001972 BE143533 R80137 AA804698 AU076403 AF131784 AW024937 NM_00020 AB032963 AA476652 H56112 AB011095 BE072425 AA296922 AW362867 AL035668 AF209704 NM_016098 AA910339 AA297012 AW00140 AK000140 AK000140 AK000140 AK000140	Hs.192124 Hs.184507 Hs.184507 Hs.209061 Hs.111732 Hs.208927 Hs.30822 Hs.302738 Hs.82547 Hs.323468 Hs.25318 Hs.29410 Hs.172670 Hs.43577 Hs.94952 Hs.16032 Hs.16032 Hs.173853 Hs.135723 Hs.108725 Hs.26216 Hs.103839 Hs.83623	ESTs, Weakly similar to 138022 hypotheti Homo sapiens Chromosome 16 BAC done Cl CTCL tumor artigen se57-1 sudD (suppressor of bimD6, Aspergillus n Fc fragment of IgG binding protein Homo sapiens mRNA; cDNA DKFZp434H123 hypothetical protein FLJ11110 hypothetical protein FLJ11110 hypothetical protein FLJ20035 Homo sapiens cDNA; FLJ21425 fis, clone C retinoic acid receptor responder (tazaro electron-transferring-flavoprotein dahyd Homo sapiens clone 25194 mRNA sequence ESTs activin A receptor type Il-like 1 ATPase, Class I, type 8B, member 2 Homo sapiens cDNA; FLJ23371 fis, clone H gbcyg55fV7.11 Soares fetal fiver spleen KIAA0523 protein hypothetical protein FLJ20199 gastrointestinal peptide Homo sapiens cDNA; FLJ21425 fis, clone C bone morphogenetic protein 2 glycolipid transfer protein HSPC040 protein LOCS0627 erythrocyte membrane protein band 4.1-li nuclear receptor subfamily 1, group 1, m hypothetical protein aquaporin 8 polymeric immunoglobulin receptor	0.18 0.18 T 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	
400417 443506 428470 451928 422106 430304 452852 421904 417716 45727 450680 42061 425828 449110 445727 40839 423541 410850 412420 423942 421832 459046 421360 423942 421360 423942 421360 423942 421360 423942 421360 423942 421360 423942 421360 423942 421360 423942 421360 423942 421360 423942 421360 423942 421360 423942 421360 423942 421360 421360 421360 421360 421364 42136 4213	X72475 H10661 AC002301 Al823801 BE242628 D84239 AL122071 AK001972 BE143533 R80137 AA804698 AU076403 AF131784 AW024937 NM_00020 AB032963 AA476652 H56112 AB011095 BE072425 AA296922 AW362867 AL035668 AF209704 NM_010339 AA297012 AW373062 AK000140 AF067797 W05391	Hs.192124 Hs.184507 Hs.209061 Hs.111732 Hs.208927 Hs.30822 Hs.302738 Hs.82547 Hs.323468 Hs.25318 Hs.29410 Hs.172670 Hs.43577 Hs.94952 Hs.16032 Hs.16032 Hs.173853 Hs.135723 Hs.108725 Hs.16032 Hs.16032 Hs.16032 Hs.176658 Hs.288579 Hs.176658	ESTs, Weakly similar to I38022 hypotheti Homo sapiers Chromosome 16 BAC done Ci CTCL tumor artigen se57-1 sudD (suppressor of bimD6, Aspergillus n Fc fragment of IgG binding protein Homo sapiers mRNA; cDNA DKFZp434H123 hypothetical protein FLJ11110 hypothetical protein FLJ20035 Homo sapiers cDNA; FLJ21425 fis, clone C retinoic acid receptor responder (tazaro electron-transferring-flavoprotein dehyd Homo sapiers clone 25194 mRNA sequence ESTs activin A receptor type Il-like 1 ATPasa, Class I, type 8B, member 2 Homo sapiers cDNA; FLJ23371 fis, clone H gbryq55f7_r1 Soares fetal fiver spleen KIAA0523 protein hypothetical protein FLJ20199 gastrohlestinal peptide Homo sapiers cDNA; FLJ21425 fis, clone C bone morphogenetic protein 2 glycolipid transfer protein LCC50507 erythrocyte membrane protein band 4.1-li nuclear receptor subfamily 1, group I, m hypothetical protein aquaporin 8 polymente Immunoglobutin receptor nuclear receptor subfamily 1, group I, m	0.18 0.18 T 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	
400417 443506 428470 451928 422106 430304 452852 421904 417165 417771 452802 450680 42061 426828 409190 437682 449110 446727 408394 412420 423942 421832 459046 421360 421360 421360 421360 421360 421364	X72475 H10661 AC002301 AI823801 BE242628 D84239 AL122071 AK001972 BE143533 R80137 AA804698 AU076403 AF131784 AW024937 NM_00020 AB032963 AA476652 H56112 AB011095 BE072425 AA296922 AW362867 AL035668 AF209704 NM_016098 AA910339 AA297012 AW00140 AK000140 AK000140 AK000140 AK000140	Hs.192124 Hs.184507 Hs.209061 Hs.111732 Hs.208927 Hs.30822 Hs.302738 Hs.82547 Hs.323468 Hs.25318 Hs.29410 Hs.172670 Hs.43577 Hs.94952 Hs.16032 Hs.16032 Hs.173853 Hs.135723 Hs.108725 Hs.16032 Hs.16032 Hs.16032 Hs.176658 Hs.288579 Hs.176658	ESTs, Weakly similar to 138022 hypotheti Homo sapiens Chromosome 16 BAC done Cl CTCL tumor artigen se57-1 sudD (suppressor of bimD6, Aspergillus n Fc fragment of IgG binding protein Homo sapiens mRNA; cDNA DKFZp434H123 hypothetical protein FLJ11110 hypothetical protein FLJ11110 hypothetical protein FLJ20035 Homo sapiens cDNA; FLJ21425 fis, clone C retinoic acid receptor responder (tazaro electron-transferring-flavoprotein dahyd Homo sapiens clone 25194 mRNA sequence ESTs activin A receptor type Il-like 1 ATPase, Class I, type 8B, member 2 Homo sapiens cDNA; FLJ23371 fis, clone H gbcyg55fV7.11 Soares fetal fiver spleen KIAA0523 protein hypothetical protein FLJ20199 gastrointestinal peptide Homo sapiens cDNA; FLJ21425 fis, clone C bone morphogenetic protein 2 glycolipid transfer protein HSPC040 protein LOCS0627 erythrocyte membrane protein band 4.1-li nuclear receptor subfamily 1, group 1, m hypothetical protein aquaporin 8 polymeric immunoglobulin receptor	0.18 0.18 T 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	
400417 443506 428470 451928 429576 422106 430304 452852 421904 417165 417771 452802 450801 426828 408190 437682 449110 408395 423541 410850 41240 421360 421360 421360 438091 438091 438089 445204 44854 448589	X72475 H10661 AC002301 Al823801 BE242628 D84239 AL122071 AK001972 BE143533 R80137 AA804698 AU076403 AF131784 AW024937 NM_00020 AB032963 AA476652 H56112 AB011095 BE072425 AA296922 AW362867 AL035668 AF209704 NM_010339 AA297012 AW373062 AK000140 AF067797 W05391	Hs.192124 Hs.184507 Hs.184507 Hs.209061 Hs.111732 Hs.238927 Hs.308223 Hs.302738 Hs.82547 Hs.322468 Hs.25318 Hs.25318 Hs.29410 Hs.172670 Hs.43577 Hs.94952 Hs.16032 Hs.129778 Hs.26216 Hs.103839 Hs.135723 Hs.176658 Hs.268579 Hs.83623 Hs.12409	ESTs, Weakly similar to I38022 hypotheti Homo sapiers Chromosome 16 BAC done Ci CTCL tumor artigen se57-1 sudD (suppressor of bimD6, Aspergillus n Fc fragment of IgG binding protein Homo sapiers mRNA; cDNA DKFZp434H123 hypothetical protein FLJ11110 hypothetical protein FLJ20035 Homo sapiers cDNA; FLJ21425 fis, clone C retinoic acid receptor responder (tazaro electron-transferring-flavoprotein dehyd Homo sapiers clone 25194 mRNA sequence ESTs activin A receptor type Il-like 1 ATPasa, Class I, type 8B, member 2 Homo sapiers cDNA; FLJ23371 fis, clone H gbryq55f7_r1 Soares fetal fiver spleen KIAA0523 protein hypothetical protein FLJ20199 gastrohlestinal peptide Homo sapiers cDNA; FLJ21425 fis, clone C bone morphogenetic protein 2 glycolipid transfer protein LCC50507 erythrocyte membrane protein band 4.1-li nuclear receptor subfamily 1, group I, m hypothetical protein aquaporin 8 polymente Immunoglobutin receptor nuclear receptor subfamily 1, group I, m	0.18 0.18 T 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	

403381				0.21	
449833	R82252	Hs.106106	protein kinase (cAMP-dependent, catalyti	0.21	
	F18572	Hs.22978			0.21
	AB020635		KIAAC828 protein	0.21	0.21
	AA743462			0.21	
	R28660	Hs.24305	ESTs	0.21	
	AA928829	Hs.47099	hypothetical protein FLI21212	0.21	
	AF038007		ATPase, Class I, type 8B, member 1		
	AA333327	He 102225	places shipmed commenced	0.21	
	R51494	Hs.71818	plasma glutamate carboxypeptidase	0.21	
	AF088076	Hs.59507	ESTS	0.22	
	M21388		ESTs, Wealthy similar to ACC04858 3 U1 sm	0.22	
	U24683	Hs.123017		0.22	
		No. Anno	immunoglobulin heavy constant mu	0.22	
	AW190902 BE241595		cysteine knot superfamily 1, BMP antagon	0.22	
			selectin L (lymphocyte adhesion molecule	0.22	
	AA465293	Hs.105069		0.22	
	W40460		phospholipase A2, group X	0.22	
	Y07828	Hs.91096	ring finger protein	0.22	
	N76712	Hs.44829	ESTs, Weakly similar to 138022 hypotheti	0.22	-
	AA058357		carcinoembryonic antigen-related cell ad	0.22	
	Al167816	Hs.43355	ESTs	0.22	
	Z47553	Hs.14286	flavin containing monooxygenase 5	0.22	
403740				0.22	
405701				0.22	
	AA319146		secretogranin II (chromogranin C)	0.22	
	L36531	Hs.91296	integrin, alpha 8	0.23	
	AW058357			0.23	
	D63216	Hs.153684	frizzied-related protein	0.23	
		Hs.121524	glutathione reductase	0.23	
	Al073913		ESTs, Weakly similar to JE0350 Anterior	0.23	,
	AJ432401	Hs.2659	fibrinogen-like 2	0.23	
	AI815867	Hs.50130	neodin (mouse) homolog	0.23	
	AW503785		complement component (3d/Epstein Barr vi	0.24	
	AA360328		RAP1A, member of RAS oncogene family	0.24	
	NM_006416		solute carrier family 35 (CMP-sialic ad	0.24	
	AA149791		ESTs, Wealdy similar to phosphatidyiseri	0.24	
	Al239607	Hs.99196	hypothetical protein MGC11324	0.24	
	BE561430	Hs.239388	The state of the s		0.24
	AA320829		protocadherin 18	0.24	
	BE564830		hypothetical protein FLJ12899	0.24	
443060	D78874	Hs.8944	procollagen C-endopeptidase enhancer 2	0.24	
405441				0.24	
	M34516		gb:Human omega light chain protein 14.1	0.24	
	AW887604		complement component 7	0.24	
426447	AV655843	HS.169919	electron-transfer-flavoprotein, alpha po	0.24	
	BE383816	HS.12532	chromosome 1 open reading frame 21	0.24	
			latexin protein	0.24	
	AW410035		MAD (mothers against decapentaplegic, Dr	0.24	
			ESTs	0.24	
			immunoglobulin kappa constant	0.24	
	AW082597			0.25	
			CED-6 protein	0.25	
426512	AVV511656	ms.1/01/7	Meis1 (mouse) homolog	0.25	

### TABLE 22A

Table 22A shows the accession numbers for those pkeys lacking unigeneID's for Tables 21A. For each probeset we have listed the gene cluster number from which the oligonucleotides were designed. Gene clusters were compiled using sequences derived from Genbank ESTs and mRNAs. These sequences were clustered based on sequence similarity using Clustering and Alignment Tools (DoubleTwist, Oakland California). The Genbank accession numbers for sequences comprising each cluster are listed in the "Accession" column.

Pkey: CAT number: Unique Eos probeset Identifier number

Gene cluster number

Accession: Genbank accession numbers

Pkey CAT Number Accession

449110 798430\_1 H56112 H58047 Al630710 N58742

### TABLE 22B

Pkey: Ref:

Unique number corresponding to an Eos probeset
Sequence source. The 7 digit numbers in this column are Genbank Identifier (GI) numbers. "Dunham L et al." refers to the publication entitled "The DNA sequence of human chromosome 22." Dunham L et al., Nature (1999) 402-489-495. Indicates DNA strand from which exons were predicted. Indicates nucleotide positions of predicted exons.

Strand Nt\_position:

Pkey	Ref	Strand	Nt_position
403047	3540153	Minus	59793-59968
403381	9438267	Minus	26009-26178
403740	7630882	Plus	86504-87227
404854	7143420	Plus	14260-14537
405441	7408124	Pius	100952-101283
405701	4263751	Plus	93243-93364

### TABLE 23: 175 GENES UP-REGULATED IN COLON CANCER DERIVED LIVER METASTASES COMPARED TO COLON CANCER PRIMARY TUMOR SAMPLES CLASSIFIED AS DUKE'S B SURVIVOR

Table 23 shows 175 genes up-regulated in colon cancer derived liver metastases compared to colon cancer primary tumor samples classified as Duke's B stage with a positive survival outcome (Duke's B survivor). These were selected from 59680 probesets on the Affymetrix/Eos Hu03 GeneChip array such that the ratio of "average" colon cancer derived liver metastases to "average" Duke's B survivor was greater than or equal to 3.0. The "average" colon cancer derived liver metastases level was set to the 50th percentile. The "average" Duke's B survivor level was set to the 50th percentile.

Pkey: Unique Eos probeset identifier number

ExAcon: Exemplar Accession number, Genbank accession number

UnigenelD: Unigene number

Unigene Title: Unigene gene title

Genes up liver metastases vs Duke's B survivors

Pkey	ExAcon	UnigeneiD	Unigene Title	R1
426101	AL049987	Hs.166361	Homo sapiens mRNA; cDNA DKFZp564F112 (fr	9.06
432572	A1660840		ESTs. Weakly similar to ALUE_HUMAN IIII	7.96
	H57111	Hs.221132		7.88
			ESTs, Moderately similar to 138022 hypot	7.48
	AI539227		hypothetical protein FLJ23556	7.45
	AW083789			7.00
442369	AJ565071	Hs.159983	ESTs	7.00
415116	AA160363	Hs.269956	ESTs	6.98
433517	AW022133	Hs.189338	ESTs	6.70
437176	AW176909	Hs.42346	calcineurin-binding protein calsarcin-1	6.68
440524	R71264	Hs.16798	ESTs	6.62
408806	AW847814	Hs.289005	Homo sapiens cDNA: FLJ21532 fis, clone C	6.38
448974	AL049390	Hs.22689	Homo sapiens mRNA; cDNA DKFZp586O1318 (	f6.28
412088	A1689496	Hs.108932	ESTs	6.04
417670	R07785		gb:yf15c06.r1 Soares fetal liver spleen	5.95
440774	Ai420611	Hs.127832	ESTs	5.91
	T94907	Hs.188572		5.90
436100	AA704806	Hs.143842	ESTs, Weakly similar to 2004399A chromos	5.84
	R10799	Hs.191990		5.84
			Homo sapiens cDNA FLJ12149 fis, clone MA	5.67
	BE218886			5.61
			Homo sapiens cDNA FLJ12142 fis, ctone MA	5.60
			Homo saplens clone IMAGE:713177, mRNA se	5.54
	AA508857		ESTs, Weakly similar to ALU1_HUMAN ALU S	5.51
440980	AL042005	Hs.1117	tripeptidyl peptidase II	5.48
443651	W22152	Hs.282929		5.42
	AA456195		hypothetical protein FLJ14621	5.29
	AV651680			5.24
	AI241331		ESTs, Moderately similar to I38937 DNA/R	5.11
	BE350122	Hs.157367	ESTs, Weakly similar to 178885 serine/th	5.11
	AA657494		gb:nt66f04.s1 NCL_CGAP_Pr3 Homo sapiens	5.10
	AW976570		ESTs	5.08
	A1076345	Hs.214199		5.07
	AA532718			5.00
	AA284447	Hs.271887		4.96
	AA602917	Hs.156974		4.94
438962	BE046594	11- 404mm	gbthn41c11_x1 NCI_CGAP_RDF2 Homo sapiens	
419999	AI760942	Hs.191754		4.89
435812	AA700439	Hs.188490		4.86
418562	AI801098	Hs.151500	12.5	4.79
428065	A1634046	Hs.157313		4.77
407618	AW054922	IIS.334/8	Homo sapiens cDNA FLJ12366 ffs, clone MA	4.75
435981	H74319	Hs.188620		4.74
	N99638		gbzza39g11.ri Soares fetal liver spleen	4.73
432340		Lin 47mm	gbm/21d02.s1 NCL_CGAP_AA1 Homo sapiens	4.72
447982	H22953	Hs.137551	ESTS	4.72

	AA001615		ESTs	4.72
	AA226495			4.70
438607	AW080237	Hs.252884	ESTS	4.68
438406	BE273296	Hs.254467	Homo sepiens cDNA FL/13255 fis, clone OV	4.62
420018	AA554827	Hs.289115	DIXFZp434A0131 protein	4.62
402220	BE158006	Hs.212296	ESTS	4.60
430023	AW/49860	HS.293545	ESTs, Wealthy similar to 138022 hypotheti	4.50
	AA610649			4.56
	AW958181			4.52
420U/9	AA421020	HS.200919	Use and an ability of Manager Co. 1. St.	4.52
42103/ 417025	AA4024EE	HS. 120202	Homo sapiens dDNA FLJ13266 fis, clone OV	4.50
42307A	AL118754	TIS.ZZ300	Homo saplens clone IMAGE:451939, mRNA se	4.48
	A1076459	Hs.15978	gb:DKFZp761P1910_r1 761 (synonym: hamy2)	4.44
	AW295859			4.44 4.44
418876	AA740616		gbmy97f11.s1 NCL_CGAP_GCB1 Homo saplens	
428279	AA425310	Hs.155766	ESTs, Weakly similar to A47582 B-cell gr	4.42
430573	AA744550	Hs.136345	ESTs	4.42
430929	AA489166	Hs.156933	ESTs	4.40
446099	T93096	Hs.17126	hypothetical protein MGC15912	4.40
439362	AI954880	Hs.134604	ESTS	4.36
421999	U50535	Hs.110630	Human BRCA2 region, mRNA sequence CG006	4.35
434220	A)174777	Hs.283039	Homo saptens PRO2492 mRNA, complete cds	4.33
	AA878324			4.32
	Al253112			4.30
	H72531			4.30
	AA564489			4.30
	AA608955			4.30
	AA230228			4.28
	AA769266		ESTS Homo sapiens mRNA; cDNA DKFZp564F133 (fr	4.26
42R054	A1948688	He 266610	FOLIO SEPTERE MINORY, CTIMA DVL STOPH 123 (IL	4.23
413967	AW/204431	He 117853	ESTs, Weakly similar to 138022 hypotheti	4.22
433230	AW136134	Hs.220277	ESTs	4.22
421057	T58283	Hs.10450	Homo saplens cDNA: FLJ22063 fis, clone H	4.22
423578	AW960454	Hs.222830	ESTs	4.21
			ESTs, Moderately similar to ALU1_HUMAN A	4.20
443696	AW607444	Hs.134622	ESTs	4.20
432722	AA830532	Hs.326150	ESTs	4.18
435756	AI418466			4.14
428825	A1084336	Hs.128783	ESTs, Wealdy similar to 138022 hypotheti	4.14
			heterochromatin-like protein 1	4.12
	AW898533			4.12
	A1826999			4.12
4313/9	ANDURZO4.	MS.10293/	peptidylprotyl isomerase A (cyclophilin	4.11
432431	AMS/2//	HS.2324/1	ESTs, Weakly similar to ALU1_HUMAN ALU S ESTs, Weakly similar to ALU8_HUMAN ALU S	4.10
450177	A1698091	Hs.107845		4.08
			0.01 *** *** * *** **	4.08 4.06
		Hs.293156	man	4.06
432731	R31178	Hs.287820		4.06
	AI056872			4.06
434658	A1624436	Hs.310286	ESTs	4.06
444040	AF204231	Hs.182982	golgin-67	4.06
429512	AA453987	Hs.144802	ESTs	4.06
443349	AI052572	Hs.269864	ESTs, Wealdy similar to ALU1_HUMAN ALU S	4.04
	AA847510			4.04
425955		Hs.248549	ESTs, Moderately similar to S65657 alpha	4.02
431393	AW971493	Hs.134269	ESTs, Highly similar to cytokine recepto	4.00
432720	AW9/200/	HS.28/510		4.00
442050	AW362803	HS.1002/1	ESIS	3.97
412000	AW205632	Π3.293/21 : Un 244400 :		3.95
	AVV205032 AI982794			3.95
	BE088746		gb:CM2-8T0693-210300-123-d09 BT0693 Homo	3.92
				3.86
418303	AA215701	Hs.186541		3.85
444816	Z48633	Hs.283742		3.84
	AW973253			3.83
	AA811244			3.83
	AL043683			3.83
435318	T97301	Hs.18026	ESTS	3.82
	AW450536		ESTs :	3.80
424915		Hs.23096	ESTs :	3.76
449987	AW079749	Hs.184719	ESTs, Wealdy similar to ALUI_HUMAN ALU S	3.76
416265	AA177088	Hs.190065	ESTs :	3.75

440400	DE477004		-L-DOLLETTENS CONTO DAL SON LETTENS Norma	274
	BE177681	11- 44047	gb:RC1-HT0598-020300-011-h02 HT0598 Home	3.74
	BE242691	MS.1494/	ESTS	3.73
	R08950		ESTs, Wealthy similar to ALU1_HUMAN ALU S	
			Homo saplens cDNA FLJ20770 fis, clone CO ···	
	AA737415			3.63
			ESTs, Weakly similar to 138022 hypotheti	3.63
	AW971063			3.62
			BANP homolog, SMAR1 homolog	3.60
	AA699325			3.60
	Al341227	Hs.157106		3.57
438543	AA810141	Hs.192182	ESTs	3.55
422068	Al807519	Hs.104520	Homo saplens cDNA FLJ13694 fis, clone PL	3.54
418259	AA215404	Hs.137289	ESTs	3.54
428290	Al932995	Hs.183475	Homo sapiens clone 25061 mRNA sequence	3.49
419457	AA243146		ESTs. Moderately similar to S23A_HUMAN P	3.47
	AA833902			3.47
	AW971350			3.45
	AA228357		gbcns39d05.r1 NCI_CGAP_Pr2 Homo saplens	3.45
		Hs 183684	eukaryotic translation initiation factor	3.44
	AI076570			3.44
			Homo sapiens cDNA FLJ12727 fis, clone NT	3.43
			Homo saplens clone FLB7723 PRO2055 mRNA,	
	AA478883			3.39
	AA236282			3.38
	T62926	Hs.304184		3.37
	H72245	Hs.188635		3.37
	R51790		Human clone 23933 mRNA sequence	3.35
				3.33
	BE327036			3.28
	AA640987			3.28
	AF085833			3.25
	AW295687			3.22
	Al285970	Hs.183817		
	AF095687			3.18
	AI809314	HS.208501	ESTs, Weakly similar to B34087 hypotheti	3.18
	BE156536		gb:QV0-HT0368-310100-091-h10 HT0368 Homo	
	AA684078		gb:ac04a05.s1 Stratagene lung (937210) H	3.13
	AI766732	Hs.210628		3.13
	N71463		ESTs. Weakly similar to ALU1_HUMAN ALU S	3.13
			Homo saplens cDNA FLJ12007 fis, clone HE	3.12
	T82427		Homo sepiens cDNA: FLJ20869 fis, clone A	3.12
			ESTs, Moderately similar to PC4259 ferri	3.12
	AI922821		ESTs	3.12
	A1640635	Hs.116468		3.11
	AW016607			3.11
			splicing factor (CC1.3)	3.09
	Al381687			3.09
	Al343966	Hs.158528		3.08
	AW510927			3.05
	Al798851		hemoglobin, gamma G	3.04
414900	AW452420	Hs.248678	ESTs	3.04
435937	AA830893	Hs.119769	ESTs	3.02
424848	At263231	Hs.327090	EST	3.02
435354	AA678267	Hs.117115	ESTs	3.00

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### TABLE 23A

Table 23A show the accession numbers for those pkeys lacking unigeneID's for tables 1-20A, 21A, 22A, and 23A. For each probeset we have listed the gene cluster number from which the oligonucleotides were designed. Gene clusters were compiled using sequences derived from Genbank ESTs and mRNAs. These sequences were clustered based on sequence similarity using Clustering and Alignment Tools (Double Twist, Oakland California). The Genbank accession numbers for sequences comprising each cluster are listed in the "Accession" column.

Picey: CAT number:

Unique Eos probeset identifier number

Gene cluster number

Accession:

Genbank accession numbers

Pkey	CAT Number	Accession	
413497	1373771_1	BE177661 H06215 BE144709 BE144829	
413672	1382512_1	BE156536 BE156439 BE156700 BE156449 BE156653 BE156533 BE156524 BE156670 BE156721 BE156723	
417670	1692163_1	R07785 T85948 T86972	
418876	179960_1	AA740616 AA654854 AA229923	
419145	182217_1	N99638 AW973750 AA328271 H90994 AA558020 AA234435 N59599 R94815	
423974	233842_1	AL118754 AA333202 H38001	
432340	345248 1	AA534222 AA632632 T81234	-
434966	396504 1	AA657494 AI582663 AI581639	_
435073	399701_1	AA664078 AW363313 AA805009	
438962	467390_1	BE046594 BE046667 AA828585 Al207343	
455778	1364506 1	BE088746 BE088802 BE088755 BE08876 BE088947 BE088841 BE088952	
456332	179104_1	AA228357 AW841786 AW841716	

# TABLE 24: 34 GENES DOWN-REGULATED IN COLON CANCER DERIVED LIVER METASTASES COMPARED TO COLON CANCER PRIMARY TUMOR SAMPLES CLASSIFIED AS DUKE'S B SURVIVOR

Table 24 shows 34 genes down-regulated in colon cancer derived liver metastases compared to colon cancer primary tumor samples classified as Duke's B stage with a positive survival outcome (Duke's B survivor). These were selected from 59680 probesets on the Affymetrix/Eos Hu03 GeneChip array such that the ratio of "average" colon cancer derived liver metastases to "average" Duke's B survivor was greater than or equal to 0.25. The "average" colon cancer derived liver metastases level was set to the 50th percentile. The "average" Duke's B survivor level was set to the 50th percentile.

Pkey: Unique Eos probeset identifier number

ExAccn: Exemplar Accession number, Genbank accession number

UnigeneiD: Unigene number

Unigene Title: Unigene gene title

R1: Genes down liver metastases vs Duke's B survivors

Dl.		U-l	Ibalanca Title	D4
Pkey	ExAcen	nuideuem	Unigene Title	R1
414522	AW518944	Hs.76325	step II splicing factor SLU7	0.05
416768	AA363733	Hs.1032	regenerating islet-derived 1 alpha (panc	0.07
409153	W03754	Hs.50813	hypothetical protein FLJ20022	0.07
414555	N98569	Hs.76422	phospholipase A2, group IIA (platelets,	0.11
418007	M13509	Hs.83169	matrix metalloproteinase 1 (Interstitial	0.11
424326	NM_01447	9Hs.145296	disintegrin protease	0.11
428934	AF039401	Hs.194659	chloride channel, calcium activated, fam	0.12
417233	W25005	Hs.24395	small inducible cytokine subfamily B (Cy	0.12
422260	AA315993	Hs.105484	regenerating gene type IV	0.12
425196	AL037915	Hs.155097	carbonic anhydrase II	0.13
433336	AF017986	Hs.31386	secreted frizzled-related protein 2	0.13
450685	L15533	Hs.423	pancreatitis-associated protein	0.14
407811	AW190902	Hs.40098	cysteina knot superfamily 1, BIVIP antagon	0.15
414798	Al286323	Hs.97411	hypothetical protein MGC12335	0.16
452852	AK001972	Hs.30822	hypothetical protein FLJ11110	0.17
447513	AW955778	Hs.313500	ESTs, Moderately similar to ALU7_HUMAN A	0.17
423541	AA296922	Hs.129778	gastrointestinal peptide	0.17
425071	NM_01398	9Hs.154424	delodinase, lodothyronine, type II	0.18
406636	L12064		gb:Homo sapiens (clone WR4.12VL) anti-th	0.18
421515	Y11339	Hs.105352	GelNAc alpha-2, 6-slalyttransferase I, I	0.18
428368	BE440042	Hs.83326	matrix metalloproteinase 3 (stromelysin	0.19
414812	X72755	Hs.77357	monokine induced by gamma interferon	0.20
452594	AU076405	Hs.29981	solute carrier family 26 (sulfate transp	0.20
428227	AA321649	Hs.2248	small inducible cytokine subfamily B (Cy	0.21
408741	M73720	Hs.646	carboxypeptidase A3 (mast cell)	0.21
453064	R40334	Hs.89463	potassium large conductance calcium-acti	0.21
431727	AW293464	Hs.162031	ESTs	0.22
433658	L03678	Hs.156110	immunoglobulin kappa constant	0.22
442064	A1422867	Hs.88594	ESTs	0.22
417880	BE241595	Hs.82848	selectin L (lymphocyte adhesion molecule	0.22
430280	AA361258	Hs.237868	interieukin 7 receptor	0.23
452877	Al250789	Hs.32478	ESTs	0.23
410310	J02931	Hs.62192	coagulation factor III (thromboplastin,	0.24
402408				0.24

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### TABLE 24B

Pkey: Ref:

Unique number corresponding to an Eos probeset

Sequence source. The 7 digit numbers in this column are Genbank Identitier (GI) numbers. "Durnham I. et al." refers to the publication
entitled "The DNA sequence of human chromosome 22." Durnham I. et al., Nature (1999) 402:489-495.
Indicates DNA strand from which exons were predicted.
Indicates nucleotide positions of predicted exons.

Strand

Nt\_position:

Pkey Ref

Strand

Minus

Nt\_position

402408

9796239

110326-110491

### **TABLE 25:**

Table 25 depicts Seq ID No., UnigeneID, UnigeneTitle, Pkey, and ExAccn for all of the sequences in Table 26. Seq ID No links the nucleic acid and protein sequence information in Table 26 to Table 25.

Pkey: ExAcon: Unigene Unigene Seq.ID.I	ED: U	xemplar Acc Inigene numb Inigene gene			
Pkey	ExAcen	UnigeneiD	Unigene Title	Seq ID No.	
426101	AL049987		Homo saplens mRNA; cDNA DKFZp564F112 (fr	1-4	
419145	N99638		gb	5&6	
426818	AA554827	Hs.340046	DKFZp434A0131 protein	7&8	
421057	T58283		Homo saplens cDNA	9	
446619	AU076643	Hs.313	secreted phosphoprotein 1 (osteopontin,	10 & 11	
431958	X63629	Hs.2877	cadherin 3, type 1, P-cadherin (placenta	12 & 13	•
409041	AB033025	Hs.50081	Hypothetical protein, XP_051860 (KIAA119	14 &15	
443162	T49951	Hs.9029	DKFZP434G032 protein	16 &17	
436385	BE551618	Hs.144097	ESTs	18-20	
447033	Al357412	Hs.157601	ESTs	21 & 22	
439608	AW86469	Hs.301732	hypothetical protein MGC5306	23-27	
449032	AA045573	Hs.22900	nuclear factor (erythrold-derived 2)-lik	28 & 29	
442577	AA292998	Hs.163900	ESTs	30 & 31	
429970	AK000072	Hs.227059	chloride channel, calcium activated, fam	32 & 33	
424566	M16801	Hs.1790	nuclear receptor subfamily 3, group C, m	34 & 35	
457407	AA505035	Hs.345911	ESTs	36	
430378	<b>Z29572</b>	Hs.2556	tumor necrosis factor receptor superfami	37 & 38	
417332	AW972717	7 Hs.288462	hypothetical protein FLJ21511	39 & 40	•

### TABLE 25A

Unique Eos probeset identifier number

CAT number: Accession

Gene cluster number Genbank accession numbers

#### Pkey **CAT Number Accession**

409041

10962\_2 AB033025 AL359061 AL045836 AI751521 AI752804 AI752650 AA853580 AI752290 AA853460 AI752769 AA85309 AA853785 AA853219 AW068503 AI752069 AL049389 AW068368 BE439518 W52813 BE141833 AI940574 AI750606 AL109718 AA242845 AA315795 AA307741 AW954603 AI752070 AA350794 AI752649 AA307755 AW951677 AA298896 BE439692 AA852453 AW068826 AW853984 AA418236 AA639417 AW290917 AI750592 AI752768 AL045837 AI926513 AW262903 BE439819 AV459360 AW339074 AW295181 AW029483 AI750945 AI750659 AI752525 AI147688 BE440122 AI751522 AI473816 AI752291 AI694639 AI925816 AA599476 AA242752 AW021892 AI755098 AW469299 AW769363 AA853579 AI784082 AA852454 AI925501 AA976657 AW150473 AW166734

417332 166755\_1

AW972717 AA523805 AI962905 AI373245 AW235545 AI812045 AW589434 AI826824 AW572339 AI377551 AA195718

AU868470

419145 182217\_1

N99638 AW973750 AA328271 H90994 AA558020 AA234435 N59599 R94815 T58283 AA765038 AA283052 H99396 AA814751 A1032674 N81016 N81017 BE222349 AA830545

421057 198849\_1 424566 2408\_1

M16801 NM\_000901 D57171 AL041328 AF068623 AI201179 AA151766 AA568349 AI698649 AI692765 BE327401 AA744953 AA744951 AW361986 AV651840 T29894 AW945146 AW945145 W24096 A1183952 AI458972 AW190983 AI765359 AI634663 AI741201 AW418944 AI767551 AA679687 AW772342 AW629508 BEED4300 AI251790 AI522294 AA724341 AW615402

426101 26088\_1

ALSJ7570 AA470665 AL58375 AW768901 AA447079 723537 AL783747 RA4301 D56621 N31919 AA149749 AL04987 AW362842 T78981 AA247541 AI217018 AW961515 AA632986 AA663108 BE326465 AW872412 AI024689 AA453725 BE150456 AA229448 AA442638 AA442648 AI916737 AA460220 AA868553 AI827987 AI005467 R31132 AI742087 AA442379 N56349 AW769479 A1860142 A1917507 AA813604 A1860141 A1459289 AA522837 A1354470 A1921333 BE466760 AW971193 AW103830 AW277065 AW020895 Al187977 N28268 Al084517 R95914 AA833517 AA563934 AA437299 AA436880 AA447794 AA812876 AA663178 R31089 A1472712 R64648 AA600372 AA229164 AA703066 AW270324 A1191725 AA551512 AA493776 AA554827 AA701001 AW972954 AL039129 AA385540 AA911663

426818 272427\_1 429970 31134\_1

AK000072 AW840683 AW843764 AW844444 AW844515 AW603469 AW862395 AI860838 AW511708 AF127035 NM\_012128

AK000138

430378 3170\_1

Z29572 AW976377 AA286871 AA633372 AA987627 AA743176 A1865358 AJ006884 AF031845 Z14955 X63829 NM\_001793 BE175433 BE153414 BE153425 AW364593 BE315317 AW950190 AA314252 BE142943 AW365220 431958 3394 1

AW368405 BE004269 AW366568 AL040609 AI829273 AI591168 BE146183 AI631060 AI830793 W78081 W92295 AI927422 BEDD9313 AI371793 AW993031 AI204659 AA535113 AW993030 AI190281 AA555159 AW269637 AW993146 AI149268 AA425217 AW473194 AI890930 AA551993 AI952106 W92308 AI827275 W45400 AI952328 AW609233 AA774611 AA551779 AI913957 AI798658 AI537658 AW517535 AA632236 AW339148 AW589522 AA836945 AA961263 AW015821 AWZ72946

C00249 W40333 BE143121

436385 418907\_1 439608 47438\_3

BE551618 AIZ07338 BE220568 AI261568 AW841737 AA714722 AA946891 AI033239
AW864696 AW338889 AI342866 AA084522 AI244150 AI610339 AA425635 AA764930 AA976965 AW805766 AA057765
AW805845 AW802595 AA262971 AI969620 N75323 BE549060 AW805725 AA025809 N80776 N64595 AW073372 AA025493
AI819475 AW028879 AW189496 AA442907 AW410368 AI911629 N71276 AW316922 AW805838 AA043880 AW189184 AA449756 AA748153 AA705608 AI910643 AA279492 BE160119 AW805761 AA026262 AA782207 AW057652 AW805768

H21998 AW194254 AW275178 AA449040 AA279582 N76314 N54348

442577 54549\_1

AA292998 AW238350 Al676059 AW074092 BE566458 AW078677 AW514801 AW073701 AW170620 AL523736 AL580870 AI923975 AI393326 AI700229 AW450814 AW628452 AI671457 AA937534 AI889694 AW339423 AW291875 AA551874

Al682314 Al926227 AA397375

443162 5613\_1

T49951 AA025326 H04839 AA393303 R63101 W57657 W25628 AI961431 R71165 N39940 H01548 H01759 AA641624 AI634930 AA595296 AW994770 AW994747 BE047247 W38159 AA858133 AI701944 AW386273 AA676625 R24676 R79410 AA922863 Al151319 H01013 AA024482 W02674 H01456 Al150858 AW135972 AW631167 Al270332 H04750 T49622 AA004543 R63061 Al093066 Al247539 H01225 H03388 AW472933 AA382448 Al219287 N27194 AW389613 AA649738 AW994764 AW389614 R25176 AA897262 R71626 AA909471 R71240 AW811917 R76109 Al202312 Al866010 R76162 AL117538 R79411

446619 685\_1

AU076643 AA594604 AA346866 R18197 AA345192 AA337773 AA089791 R84435 AA337838 AW392167 AA075190 D55416 AWI50380 AW366257 AA57816 H93048 AW385689 AW385689 A1186216 AW581197 AL037509 AB019562 AA232626 R97905 AW368019 AA242891 AW888502 AI798331 AW385635 AW581221 T96947 H87889 AA369511 AA075191 R80742 AA366406 W92752 H45586 AI864016 AW888497 BE004992 AI384110 AI624256 AI627593 W92728 AI682719 AA948208 AA171734 N40617 J04765 AA376957 AA362403 NM\_000582 AF052124 AA300290 AA333447 AA343721 AW889543 BE566767 R76601 R18015 AA100531 AA489963 AA101256 AA3663613 AA344088 AA336750 T77505 D56440 AL110331 F12195 R20175 AA336644 H44766 AA36684 H47766 AA3668 AA336664 H17766 AA363538 AA363590 D28760 AW578517 AA363531 AI814667 AA846899 AA366253 AW951285 AA297992 AA327756 AW361609 AW815455 AW815427 AW815428 D54182 AW852200 AA171630 W27018 AW815864 AW379995 AW378222 AW362610 BE566022 AW021023 C17352 D58435 AA345409 AI623991 AW020967 AI924770 AI799443 AW946393 AA991239 Al571617 Al935181 Al923999 Al826895 Al860319 AW189873 AW270353 AW023584 Al813811 R99929 AW339056 AA913152 AI636352 AI629394 AW151077 AW192580 AI570119 AI086391 AW021764 AW519154 AI375193 AW268678
BE465690 AW019983 AW268654 AI573138 AI141809 AI954563 AI559242 AA568945 AA886417 AW338527 AI635881
BE465690 AW019983 AW268654 AI573138 AI141809 AI954563 AI559242 AA568945 AA886417 AW338527 AI635881
BE465696 AI921239 AA968537 AI956027 AA911981 AI827661 AW511046 BE619780 AI9222227 AI811870 AW190131
AW128220 AW512906 AI290757 AI819088 AI623771 AA775516 BE249419 AI126375 H88773 AI241758 AWZ75157 AI337848 AI513425 AI531387 AA922631 AI273483 AI982898 AW158957 AI445481 BE501588 BED48264 AI499922 AWD23812 BE220523 AW973846 BE349276 Al141091 AA976060 AW973845 AA101270 AL582472 AW613675 AL139360 AL282627 AL276044 N22345 A1261875 AA634136 AI824468 AW887693 NZ7107 R21504 AID4223 NZ2067 AW196871 AI581019 BED04973 AA252035 NZ2087 AA570717 H11250 AI804026 AA368098 AA021512 H08842 NZ6275 AW196867 AI581019 BED04973 AA252035 NZ2087 AA570717 H11250 AI804026 AA368098 AA021512 H08842 NZ6275 AA176368 A1758758 AA570371 AA232274 BEZ21177 AW190221 AW471386 M78225 AI422140 AI624521 AA719775 AA300291 AA568657 AI871430 BE465630 N71862 T72587 W9Z721 H88774 D54383 AW103693 AW089986 AI382689 R42363 R44962 T98770 AA357374 AW022074 AI356207 T29241 AW089431 AI933875 N66267 N67352 AA121786 AA363910 F09824 T95618 N66888 R80550 AI280667 AW196719

447033 704603\_1

449032 7945\_1

R59299 AW021049 H73469 Al954311 BE439454 AW079450 AW973850 AA348338 AW896006 AW268145 AA853631 H17650 R39537 N66873 N67240 H06298 AI784199 R44260 AA904118 AA911756 F04544 AA807809 AA665210 Al696448 T29719 AA837240 T64844 H08926
A337412 AI870708 AL990539 W07459
AA045573 AA279920 R20139 AA372783 AW963629 H21473 R78318 W74359 AA022505 AA369091 AW084075 AA503638 AV660815 AI216262 AA779843 BE219825 AF125534 AW972129 AI919099 AI621283 AI300590 AI953701 AA331415 AW610546 AW793060 AI953679 AW793047 AW610543 AI671103 AW292105 AW024112 R77947 W76339 AA305111 AA132523 AA227467 H21401 AW36572 AW0241129 AI701886 AI654744 BE042803 AI347173 AW866053 AW662710 R36639 AI469777 AA962733 AI865366 AA501998 AW866054 BE178974 AA505035 AW235098 AI834028

457407 333252\_1 AA505035 AW235098 Al634028

### Table 26

Seq ID NO: 1 DNA sequence Nucleic Acid Accession #:

see Table 25 & 25A for complete list

Seq ID NO: 2 <u>DNA sequence</u> Nucleic Acid Accession #: X83301.1

51

Seq ID NO: 3 Protein sequence: Protein Accession #: CAA58280.1

Seq ID NO: 4 <u>DNA sequence</u> Nucleic Acid Accession #: BC002622.1

1 11 21 31 41 51 | | | | | | | | GGCACGAGGC TCCGCCCGCG GCCGGGATGC ACTAGGCAAA GCCAGCTGGG CTCCTGAGTC 60

Seq ID NO: 5 <u>Protein sequence:</u> Protein Accession #: AAH02622.1

Seq ID NO: 6 DNA sequence Nucleic Acid Accession #:

11 21

see Table 25 & 25A for complete list

Seq ID NO: 7 DNA sequence
Nucleic Acid Accession #: AKD00942
Coding sequence: 1204-1503

31

41 51

21 31 41 51 11 GTAAAGGAAT GTCTTTTAA TTCAGCTTTT CTTTTCTCCA TGCTAGTGTT ATCAGGTTTT 60 GGTATTTATT TACTTACAGC ATATGTTATG AAGCTGGTTT GAAAATTGGT TTTAGATATA 120 TCTGCAAGTT TACTACTTTG ACTGTAAAAA AAAAAAATGA AAAAGTAGTT GACATCTGTC 180 CTCAGAAGAA GTTTGCAGGT TGCATATTTG TGTGTAAATA CACAGGCTAA AAGGTAATTT 240 ATGTTCCTTG GGAATTGAAA TGGTCAGTGG CCCGTTACAG AAACTTATCA GTCATATATC 300 AGCACCAGIT CATICITITG CACCITAGGG ACCATCIGIC CCCTGAGGTG ACCTGAGAAA 360
CAACCAGITG CCCACAGACT GITATITCTT CAAGTGAGCC AGGATTTGAT TICACTGCCT 420 TATATICTAT TITTAGTGTA CAGGGCTTTG ATTITTTGGA AAACTAAAT TITAAACATA 480
-TTTGAAAAAT GTTATAAGAC TIGGACATTA AGTCTGTTGA TAGCCAAAGT CAGTTTACCA 540 AAGTAAAACA AATAAATTCT ATGCTTCTTC ATTGTCAAAG AGCAGTCTGC CATCATGTGG 600 ATATAAATGG ACTATGTAAA GTGACATGGT GCTTACTCTC TACCTAATAA TAGCCTCCCT 660 CCTGTTCCAA CAAGATAACC AACAGGTATA TTTAATTTAC CAGTTAATAT GTTTTTGGATA 720 ATTGGCTGCC TTGAAATGCT ATATGTTTTA TAGTACATCA TAGCTTTAGT TTTCTTCATA 780 AGGAAATTAC AGTTACATCC TGGCTAACAT GGTGAAACTC CATCTCTACT AAAAATACAA 840 AAAATTAGCC GGGCGTGGTG GCGGGCACTT GTAGTCCCAG CTACTCGGGA GGCTGAGGCA 900 GGAGAATGGC GTGAACCCAG GAGGCGGAGG TTGCAGTGAG CCGAGATCGT GCCACTGTAC 960 TCTGGCCTGG GAGACAGAGC GAGACTCCAT CTCAAAAAAA AAAAAAAAA AAAAAAAAA 1020 QAGAGAGAGA CCTGGAGTAG AGATTCTGTC AAAGAACTTT TTCTTTCTTG AGAAGCATCT 1080 GAAATGGAAT CTGTTGTCTC TTCGAAATAT GTACTGCTGT AACAGTGAAA CAACCCTCAG 1140 AGTATGCCTT CGTGTGGGCT ACTCGTTGTG GTTTTGAACT TGGGGGAACT GTCTGTGTTT 1200 GGGTCAAGAA TATGCAACTG GCTGGGCACA TTGGCTCACG CCTGTAATC CAGCAATTTG 1260
GGAGGCTGAG GCAGGCGGAT CACCTGAGGT CAGGGCTTCA AGACCAGCACATG 1320
GTGAAACCCC GTCTCTACTG AAAATACAAA AATTAGCTGG GCATGGTGGC AGGTGCCTGT 1380
AATCCCAGCT ACTCGGGAGG CTGACGTGAG AGAATCGCTT GAACCCGGGA GTTGGAGGTT 1440 GCAGTGAGCC GAGATTGCAC CATTGCACTC CAGCTTGGGC AACAAGAGTG AAACTCTTGT 1500

=

CTCAG

Seq ID NO: 8 <u>DNA sequence</u> Nucleic Acid Accession #:

see Table 25 & 25A for complete list

1 11 21 31 41 51

GACTAGGGTG GGCAACATAG TGAGACCTCA TCTCTAAAAT TAAAAAAATA AAAGCCACCA 60
GAAAAAAACC TAAAAACATG CCAAGTGACA TCAGTCTTTG ATGAAAATGG CAGCAGAAGA 120
GTGATGCCAT GGGTGGGGGT GGGAAATGCT ATTTCAGCAG AGAGGGAGCT GTCATGGAAG 180
ACACCATUTG GCTGGGCACG GTGGCTCACA CCTGTAATCC CAGCACTTTG GGAGATAGAG 240
GCAGGTGGAT CCCTTGAGCT TAGGAATTTG AGACTAGCCT GGGCAATAAG AGTGAAACTC 300
CATCTCAAAA AAAAAAAAA AAAAAGGTGC ATGAAACATA TGAAGCAAAA AGTGAAAGTC 360
CCCATTCTTT TCCTTTTTCC AGAGGTGATT TTTGTGGCCA ATCTGGTTTC ATTCCCTCC 420
AGACACTTTT CTAGGCATCT ATGCGCCTCT ATTCACATAT AAACAAAATA GGAGTTTTC 480
AGTGACCTTAAATGGCA TATGTATCTT TCACTCTTT TTTTCACCTA GTGGATCTTT 540
AATACCTTAA AAGCTCAACC TGGGCTTGGT GCGGTGGCTC ATACGTGTAA TCCCAGGCCT 600
TTGGGAGGCC AAGGTGGGAG GATCACTTGA GCTCAGGAGT TCCAGACCAT TCCAAAGCAA 660
AAACAAAAGG ATTTTGAGAT CAGTGTGGGC AACTTAGCAA AACACACTCT CTTAAAAAAAA
720

Seq ID NO: 9 DNA sequence Nucleic Acid Accession #:

BC010433.1

Coding sequence: 3-335

Seq ID NO: 10 <u>DNA sequence</u> Nucleic Acid Accession #:

see Table 25 & 25A for complete list

1 11 21 31 41 51

AGCGTAGCAA TTCCTTGAAA AACITAAAAT AGATTTACCG TTCAACCCAG CAATCCCATT 1080 ATTGGGCATA TACCCAGTGG AATGTAAATC ATCCTGCCAT AAAAACACAT GCACATGTAT 1140 GTTCATTGCA GCACTATTCA CAATAGCAAA GACATGGAAT CAACCTATAT GCCCATCAAT 1200 AGTAGACTGA ATAAAGAAAA TATGGTACAT ATTCACCACA GAATACTAAG CAGCCATAAA 1260 AAAAAA

Seq ID NO: 11 <u>DNA sequence</u>
Nucleic Acid Accession #: NM\_000582.1
Coding sequence: 88-990

51 31 41 GCAGAGCACA GCATCGTCGG GACCAGACTC GTCTCAGGCC AGTTGCAGCC TTCTCAGCCA 60 AACGCCGACC AAGGAAAACT CACTACCATG AGAATTGCAG TGATTTGCTT TTGCCTCCTA 120 GGCATCACCT GTGCCATACC AGTTAAACAG GCTGATTCTG GAAGTTCTGA GGAAAAGCAG 180 CTTTACAACA AATACCCAGA TGCTGTGGCC ACATGGCTAA ACCCTGACCC ATCTCAGAAG 240 CAGAATCTCC TAGCCCCACA GACCCTTCCA AGTAAGTCCA ACGAAAGCCA TGACCACATG 300 GATGATATGG ATGATGAAGA TGATGATGAC CATGTGGACA GCCAGGACTC CATTGACTCG 360 AACGACTCTG ATGATGTAGA TGACACTGAT GATTCTCACC AGTCTGATGA GTCTCACCAT TCTGATGAAT CTGATGAACT GGTCACTGAT TTTCCCACGG ACCTGCCAGC AACCGAAGTT 480 TTCACTCCAG TTGTCCCCAC AGTAGACACA TATGATGGCC GAGGTGATAG TGTGGTTTAT 540 GGACTGAGGT CAAAATCTAA GAAGTTTCGC AGACCTGACA TCCAGTACCC TGATGCTACA 600 GACGAGGACA TCACCTCACA CATGGAAAGC GAGGAGTTGA ATGGTGCATA CAAGGCCATC 660 CCCGTTGCCC AGGACCTGAA CGCGCCTTCT GATTGGGACA GCCGTGGGAA GGACAGTTAT 720 GAAACGACTC AGCTGGATGA CCAGACTGCT GAAACCCACA GCCACAAGCA GTCCAGATTA 780
TATAAGCGGA AAGCCAATGA TGAGAGCAAT GAGCATTCCG ATGTGATTGA TAGTCAGGAA 840
CTTTCCAAAG TCAGCCGTGA ATTCCACAGC CATGAATTTC ACAGCCATGA AGATATGCTG 900 GTTGTAGACC CCAAAAGTAA GGAAGAAGAT AAACACCTGA AATTTCGTAT TTCTCATGAA 960 TTAGATAGTG CATCTTCTGA GGTCAATTAA AAGGAGAAAA AATACAATTT CTCACTTTGC 1020 ATTTAGTCAA AAGAAAAAAT GCTTTATAGC AAAATGAAAG AGAACATGAA ATGCTTCTTT 1080 CTCAGTTTAT TGGTTGAATG TGTATCTATT TGAGTCTGGA AATAACTAAT GTGTTTGATA 1140 ATTAGTTTAG TTTGTGGCTT CATGGAAACT CCCTGTAAAC TAAAAGCTTC AGGGTTATGT 1200 CTATGTTCAT TCTATAGAAG AAATGCAAAC TATCACTGTA TTTTAATATT TGTTATTCTC 1260 TCATGAATAG AAATTTATGT AGAAGCAAAC AAAATACTTT TACCCACTTA AAAAGAGAAT 1320 ATAACATTIT ATGICACTAT AATCITITGT TITTTAAGIT AGTGTATATT TIGTTGTGAT 1380 TATCITTITG TGGTGTGAAT AAATCITITA TCTTGAATGT AATAAGAATT TGGTGGTGTC 1440 AATTGCTTAT TIGITITICCC ACGGTTGTCC AGCAATTAAT AAAACATAAC CTTTTTTACT 1500 GCCTAAAAA AAAAAAAAAA AAAA

Seq ID NO: 12 <u>Protein sequence:</u> Protein Accession #: NP\_000573.1

21 31

11

Seq ID NO: 13 <u>DNA sequence</u>
Nucleic Acid Accession #: NM\_001793
Coding sequence: 71-2560

41 51

AAAGGGGCAN GAGCTGAGGG GAACACCGGC COGCCGTCGC GGCAGCTGCT TCACCCCTCT 60
CTCTGCAGCC ATGGGGCTC CTCGTGGACC TCTCGCGTCT CTCCTCTTC TCACGTTTG 120
CTGGCTGCAG TGCGCGCCC CCAAGCCGTG CCGGCCAGGCG CTGAGGAGG CTGAAGTGAC 180
CTTGGAGGCG GGAGGCCGC ACAGGAGCC CCGCCCAGGCG CTGAGGAAAAG TATTCATGGG 240
CTGCCTGGG CAAGAGCCAG CTCTGTTTAG CACTGATAAT GATGACTTCA CTGTGCGGAA 300
TGGCGAGACA GTCCAGGAAA GAAGGTCACT GAAGGAAAGG AATCCATTGA AGATCTTCCC 360
ATCCAAACGT ATCTTACGAA GACACAAGAG AGATTGGGTG GTTGCTCCAA TATCTTGCCC 420
TGAAAATGGC AAGGGTCCCT TCCCCCAGAG ACTGAATCAG CTCAAGTCTA ATAAAAGATAG 480
AGACACCAAG ATTTTCTACA GCATCACCGG GCCGGGGGCA GACAGCCCCC CTGAGGGTGT 540
CTTCGCTGTA GAGAAGGACA CAGGCTGGTT GTTGTTGAAT AAGCCACTGG ACCGGAGGA
GATTGCCAAG ATTTTCTACA GCATCACCGG GCCGGGGGCA GACAGCCCCC CTGAGGGTGT 540
CATTGCCAAG ATTTCCATCA TCGTGGCCAGC TGTGTCCAGAG AATGGTCCC AGGGGGG
GCACACCTTC CGAGGGAGTG TCTTACAGAG ACTGAATCACC CAAGCCCCC AGTTTACCCC 720
GGACACCTTC CGAGGGAGTG TCTTACAGAGG ACTGAATGCCC ACAAGCCCCA AGTTTACCCC 720
GACACCCCCG GATGAGGATG ATGCCATCTA CACCTACCAA GGGCCCACA AGTTACCCCAT 780
GACAGCCAG GATGAGGATG ATGCCATCTA CACCTACCAA GGGACTTCCCCAT 840
CCATGAACA ACCCAAAGG ACCCACAGA CCTCATGTTC ACCATTCACC GGGCCACAGG 900
CACCATCAGC GTCATCTCCA GTGGCCTGGA CCGGGAAAAA GACCCAATCACC 960
CACCATCAGC GTCATCTCCA GTGGGCCTGGA CCGGGAAAAA GTCCCTGAGGT ACACACTGAC 960
CACCATCAGC GTCATCTCCA GTGGGCCTGGA CCGGGAAAAA GTCCCTGAGGT ACACACTGAC 960
CACCATCAGC GCAATGACA ATGCCTCCACT GTTTACCCC CACAAGCCCC AGTAGTTGGA 1020
GATCCTGAT GCCAATGACA ATGCTCCCAT GTTTACCCC CACAAGCACG CAGTAGTGGA 1020
GATCCTACCA GCGTGGCGTG CCACCTACCT TATCATCACG GGACCACTT 1020
GCCTGAAAT GCAATGACA ATGCTCCCAT TATCATGGC GGTCACTGAT CACCATTGAC
CCACTCACCA GCGTGGCGTG CCACCTACCT TATCATCAGGC GGGACCATTT 1020
CCCTGAGAAT GCAATGACA ATGCTCCACTACCT TATCATCAGGC GGGACCATTT 1020
TACCATCACCA GCGTGGCGTG CCACCTACCT TATCATGGGC GGTCACGAGG CCCCC11140
CCTGAAGCCACACAT AGTGGTCTACCT TATCATGGGC GGGACCATTT 1020
TACCATCACCA GCGTGGCTGC CACCACAT AGTGGTCAC GGGACCACTTTT 1020
CCTGTGAGAGC CCACCACAT AGTGGTCAGC GTGAAGGAGAG CCCCCTTTTTT 1020
CACCTTGGAGAGCCCCCTCCACACAT AGTGGTCAAGGGAAACACA

-2

Seq ID NO: 14 <u>Protein sequence:</u> Protein Accession #: NP\_001784.2

1 11 21 31 41 51

MGLPRGPLAS LLLLQVCWLQ CAASEPCRAV FREAEVTLEA GGAEQEPGQA LGKVFMGCPG 60

QEPALFSTON DDFTVRNGET VQERRSLÆR NPLKIFFSKR ILRRHKRDWV VAPISVPENG 120

KGPFPQRLNQ LKSNKDRDTK IFYSITGPGA DSPPEGVFAV EKRITGWLLIN KPLDREEIAK 180

YELFGIAVSE NGASVEDPAN ISIVTDQND HKPKFTQDTF RGSVLEGVLP GTSVMQVTAT 240

DEDDAIYTYN GVVAYSIHSQ EPKDPHDLMF THRSTGTIS VISSGLDREK VPEYTLTIQA 300

TDMDGDGSTT TAVAVVEILD ANDNAPMFDP QKYEAHVPEN AVGHEVQRLT VTDLDAPNSP 360

AWRATYLIMG GDDGDHFTIT THPESNQGIL TTRKGLDFEA KNQHTLYVEV TNEAFFVLKL 420

PTSTATIVVH VEDVNEAPVF VPPSKVVEVQ EGIPTGEPVC YYTAEDPDKE NQKISYRIK 480

DPAGWLAMDP DSGQVTAVGT LDREDEQFVR NNIYEVMVLA MDNGSPPTTG TGTLLTLID 540

VNDHGPVPEP RQITICNQSP VRQVLNITDK DLSPHISPFQ AQLTDDSDIY WTAEVNEEGD 600

TVVLSLKKFL KQDTYDVHLS LSDHGNKEQL TVIRATVCDC HGHVETCPGP WKGGFILPVL 660

GAVLALLIFLL LVLLLLVRKK RKIKEPLLLP EDDTRDNVFY YGEEGGGEED QDYDTIQLHR 720

GLEARPEVVL RNDVAPTIIP TPMYRPRPAN PDEIGNFIIB NLKAANTDPT APPYDTILVF 780

DYEGSGSDAA SLSSLTSSAS DQDQDYDYJN EWGSRFKKLA DMYGGGEDD

Seq ID NO: 15 <u>DNA sequence</u>
Nucleic Acid Accession #: XM\_051860.2
Coding sequence: 261-4346

1 11 21 31 41 51

GAGCTAGCGC TCAAGCAGAG CCCAGCGCGG TGCTATCGGA CAGAGCCTGG CGAGCGCAAG
GGGGGGGGG AGCCAGCGGG GCTAGGCGC GCCAGGGTCT GAACCACAGAT TTCCAGACT
120
AGCTACCACT CCGCTTGCCC ACGCCCCGG AGCTCCGCGG CGCTGGCGGT CAGCGACCAG
180
ACGTCCGGGG CCCTGCGCT CCTGGCCCCC GAGGGCTGAC ACTTCCCGG CTACAGACCC
240
AGAGGGAGCA CACTGCCAGG ATGGGAGCTG CTGGGCGA CACTGTCTCGG CTACAGACC
240
AGAGGGAGCA CACTGCCAGG ATGGGAGCTG CTGGGAGGCA GGACTTCCTC TTCAAGGCC
300
TGCTGACCAT CAGCTGGCTC ACTCTGACCT GCTTCCCTGG GGCCACATCC ACAGTGGCT
360
CTGGGTGGCC TGACCAGAGC CCTGAGTTGC AACCCTGGACAC CCAGTGGCT
360
CTGGGTGCC TGACCAGAGC CCTGAGTTGC AACCCTGGACACCACCACATCCACATGACCA
ACCATGTGCA TATCGGCCAG GGCAAGACAC TGCTGCTTCAC CCTCTTCTTCC ACGGTCTATT
480
ACCATGTGCA TATCGGCCAG GGCAAGACAC TGCTGCTCAC CTCTTCTTCC ACGGTCTATT
480
CCATCCACAT CTCAGAGGGA GGCAAGCAC TGCTGCTCAC CTCTTCTTCC ACGGTCTATT
480
CCATCCACAT CTCAGAGGGA GGCAAGCTGG TCATTAAAGA CCACGACGAG CCGATTGTT 540
GCCCTTTCCA GGGCAATCTC ATTGACAAACG GAGGAGAGCT GCATGCTGGG AGTGCCCTT
600
GCCCTTTCCA GGGCAATTTC ACCATCATTT TGTATGGAAG GGCTGATGAA AGGAAGCCCTTCACC
CGGATCCTTA CTATGGTCTG AAGTACATTG GGGTTGGTAA AGGAGGCGCT CTTGAGTTGC
720
ATGGACACAA AAAGCTCTCC TGGACATTTC TGAACAAGAC CCTTCACCA GGTGGCATG
720
AAGAAGAGAG CTATTTTTTTT GAAAAGGAGCT GGGGCCACCG TGGAGTTATT GTTCATGTCA
840
TCGACCCCAA ATCAGGCACA GTCATCCATT CTGACCAGTT TGACACCTAT AGATCCAAGA
900
AAGAGAGTGA ACGTCTGGTC CAGTATTTGA ACGCCGTGCC CGATGGCAGG ATCCTTTTCT
960
TTGCAGTGAA TGATGAAAGT TCTCCAAAATC TGGATGACCA 1020
AATTGGGAAG CAAACACTTC CTGCACCTTG GATTTAGACA CCCTTTGGAGT TTTCAACTG
1080
TGAAAGGAAG CAAACACTTC CTGCACCTTG GATTTAGACA CCCTTTGGAGT TTTCAACTG
1080
TGAAAGGAAG CAAACACTTC CTGCACCTTG GATTTAGACA CCCTTTGGAGT TTTCAACTTT
1080
TTTGTCCAG TGAGTGTTC AAAATTCTTCC AGACCGAGGAA TATTTCAACTTT
1140
CCTTTGTCCAG TGAGTGTTC AAAATTCTTC AGACCAGAGCA TGCCAGGAAAATTTTAAATGTTT
1200
CTTTGTCCAG TGAGTGGGTT CAAGACCTTT GAGTGACGA TGCCAGGAAATATTTAAAAGTTAAAGTTAAAGTTACAGCCACCTTTAACCTCACACCG GGCAGAAGACCT
1440
CCCGGGGCTAC CAAAAAAACCTTC CTGCACCTTTG GAGCCCTTTGAGCGGAATAATTTAAAGTTACATGTAT CATGTAAAAGTTAAAGTTCACCGCGGAGAAGAAATTAAAGGCCACATTCTTGAGCACCAGAAGAAAACCACATCAAGG

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TTAAGGCAGC ACACTTGGAG GGCACGGAGC TGAAGCATAT GGGACAGCAG CTGGTGGGTC 1920 AGTACCCGAT TCACTTCCAC CTGGCCGGTG ATGTAGACGA AAGGGGAGGT TATGACCCAC 1980 CCACATACAT CAGGGACCTC TCCATCCATC ATACATTCTC TCGCTGCGTC ACAGTCCATG 2040 GCTCCAATGG CTTGTTGATC AAGGACGTTG TGGGCTATAA CTCTTTGGGC CACTGCTTCT 2100 TCACGGAAGA TGGGCCGGAG GAACGCAACA CTTTTGACCA CTGTCTTGGC CTCCTTGTCA 2160 AGTCTGGAAC CCTCCTCCCC TCGGACCGTG ACAGCAAGAT GTGCAAGATG ATCACAGAGG 2220 ACTCCTACCC GGGGTACATC CCCAAGCCCA GGCAAGACTG CAATGCTGTG TCCACCTTCT 2280 GGATGGCCAA TCCCAACAAC AACCTCATCA ACTGTGCCGC TGCAGGATCT GAGGAAACTG 2340 GATTITICAN TACTUCALANC ANCITCATUM ACTORDOCTO TO GAGGAATCI GATATATOCTO 2400
GATTITIGGTT TATTITICAC CACGTACCAA COGGCOCCTC COTGGGGAATCI TACTOCCCAG 2400
GTTATICAGA GCACATTCCA CTGGGAAAAT TCTATAACAA CCGAGCACAT TCCAACTACC 2460
GGGCTGGCAT GATCATAGAC AACGGAGTCA AAACCACCGA GGCCTCTGCC AAGGACAACC 2520
GGCCGTTCCT CTCAATCATC TCTGCCAGAT ACAGCCCTCA CCAGGACGCC GACCCGCTGA 2580 AGCCCCGGGA GCCGGCCATC ATCAGACACT TCATTGCCTA CAAGAACCAG GACCACGGGG 2640 CCTGGCTGCG CGGCGGGAT GTGTGGCTGG ACAGCTGCCG GTTTGCTGAC AATGGCATTG 2700 GCCTGACCCT GGCCAGTGGT GGAACCTTCC CGTATGACGA CGGCTCCAAG CAAGAGATAA 2760 AGAACAGCTT GTTTGTTGGC GAGAGTGGCA ACGTGGGGAC GGAAATGATG GACAATAGGA 2820 TCTGGGGCCC TGGCGGCTTG GACCATAGCG GAAGGACCCT CCCTATAGGC CAGAATTTTC 2880 CAATTAGAGG AATTCAGTTA TATGATGGCC CCATCAACAT CCAAAACTGC ACTTTCCGAA 2940
AGTTTGTGGC CCTGGAGGGC CGGCACACCA GCGCCCTGGC CTTCCGCCTG AATAATGCCT 3000
GGCAGAGCTG CCCCCATAAC AACGTGACCG GCATTGCCTT TGAGGACGTT CCGATTACTT 3060 CCAGAGTGTT CTTCGGAGAG CCTGGGCCCT GGTTCAACCA GCTGGACATG GATGGGGATA 3120 AGACATCTGT GTTCCATGAC GTCGACGGCT CCGTGTCCGA GTACCCTGG TCCTACCTCA 3180
CGAAGAATGA CAACTGGCTG GTCCGACGCACC CAGACTGCAT CAATGTTCCC GACTGGAGAG 3240
GGGCCATTTG CAGTGGGTGC TATGCACAGA TGTACATTCA AGCCTACAAG ACCAGTAACC 3300
TGCGAATGAA GATCATCAAG AATGACTTCC CCAGCCACCC TCTTTACCTG GAGGGGGCCC 3360 TCACCAGGAG CACCCATTAC CAGCAATACC AACCGGTTGT CACCCTGCAG AAGGGCTACA 3420 CCATCCACTG GGACCAGACG GCCCCGCCG AACTCGCCAT CTGGCTCATC AACTTCAACA 3480 AGGGCGACTG GATCCGAGTG GGGCTCTGCT ACCCGCGAGG CACCACATTC TCCATCCTCT 3540 CGGATGTTCA CAATCGCCTG CTGAAGCAAA CGTCCAAGAC GGGCGTCTTC GTGAGGACCT 3600 TGCAGATGGA CAAAGTGGAG CAGAGCTACC CTGGCAGGAG CCACTACTAC TGGGACGAGG 3660 ACTCAGGGCT GTTGTTCCTG AAGCTGAAAG CTCAGAACGA GAGAGAGAAG TTTGCTTTCT 3720 GCTCCATGAA AGGCTGTGAG AGGATAAAGA TTAAAGCTCT GATTCCAAAG AACGCAGGCG 3780 TCAGTGACTG CACAGCCACA GCTTACCCCA AGTTCACCGA GAGGGCTGTC GTAGACGTGC 3840 CGATGCCCAA GAAGCTCTTT GGTTCTCAGC TGAAAACAAA GGACCATTTC TTGGAGGTGA 3900 AGATGGAGAG TTCCAAGCAG CACTTCTTCC ACCTCTGGAA CGACTTCGCT TACATTGAAG 3960 TGGATGGGAA GAAGTACCCC AGTTCGGAGG ATGGCATCCA GGTGGTGGTG ATTGACGGGA 4020 ACCAAGGGCG CGTGGTGAGC CACACGAGCT TCAGGAACTC CATTCTGCAA GGCATACCAT 4080 GGCAGCTTTT CAACTATGTG GCGACCATCC CTGACAATTC CATAGTGCTT ATGGCATCAA 4140 AGGGAAGATA COTCTCCAGA GGCCCATGGA CCAGAGTGCT GGAAAAGCTT GGGGCAGACA 4200 GGGGTCTCAA GTTGAAAGAG CAAATGGCAT TCGTTGGCTT CAAAGGCAGC TTCCGGCCCA 4260 TCTGGGTGAC ACTGGACACT GAGGATCACA AAGCCAAAAT CTTCCAAGTT GTGCCCATCC 4320 CTGTGGTGAA GAAGAAGAAG TTGTGAGGAC AGCTGCCGCC CGGTGCCACC TCGTGGTAGA 4380 CTATGACGGT GACTICTTGGC AGCAGACCAG TGGGGTGCC CGGGTCCCC CAGCCCCTGC 4440
CAGCAGCTGC CTGGGAAGGC CGTGTTTCAG CCCTGATAGGG CCAAGGGAAG GCTATCAGAG 4500
ACCCTGGTGC TGCCACCTGC CCCTACTCAA GTGTCTACCT GGAGCCCCTG GGGCGGTGCT 4550
GGCCAATGCT GGAAACATTC ACTTTCCTGC AGCCTCTTGG GTGCTTCTCT CCTATCTGTG 4620 CCTCTTCAGT GGGGGTTTGG GGACCATATC AGGAGACCTG GGTTGTGCTG ACAGCAAAGA 4680 TCCACTITGG CAGGAGCCT GACCCAGCTA GGAGGTAGTC TGGAGGGCTG GTCATTCACA 4740 GATCCCCATG GTCTTCAGCA GACAAGTGAG GGTGGTAAAT GTAGGAGAAA GAGCCTTGGC 4800 CTTAAGGAAA TCTTTACTCC TGTAAGCAAG AGCCAACCTC ACAGGATTAG GAGCTGGGGT 4860 AGAACTGGCT ATCCTTGGGG AAGAGGCAAG CCCTGCCTCT GGCCGTGTCC ACCTTTCAGG 4920 AGACTTTGAG TGGCAGGTTT GGACTTGGAC TAGATGACTC TCAAAGGCCC TTTTAGTTCT 4980 GAGATTCCAG AAATCTGCTG CATTTCACAT GGTACCTGGA ACCCAACAGT TCATGGATAT 5040 CCACTGATAT CCATGATGCT GGGTGCCCCA GCGCACACGG GATGGAGAGG TGAGAACTAA 5100 TGCCTAGCTT GAGGGGTCTG CAGTCCAGTA GGGCAGGCAG TCAGGTCCAT GTGCACTGCA 5160 ATGCCAGGTO GAGAAATCAC AGAGAGGTAA AATGGAGGCC AGTGCCATTT CAGAGGGGAG 5220 GCTCAGGAAG GCTTCTTGCT TACAGGAATG AAGGCTGGGG GCATTTTGCT GGGGGGAGAT 5280 GAGGCAGCCT CTGGAATGGC TCAGGGATTC AGCCCTCCCT GCCGCTGCCT GCTGAAGCTG 5340 GTGACTACGG GGTCGCCCTT TGCTCACGTC TCTCTGGCCC ACTCATGATG GAGAAGTGTG 5400 GTCAGAGGGG AGCAATGGGC TTTGCTGCTT ATGAGCACAG AGGAATTCAG TCCCCAGGCA 5460
GCCCTGCCTC TGACTCCAAG AGGGTGAAGT CCACAGAAGT GAGCTCCTGC CTTAGGGCT 5520
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CGTACTCCCT CGGCCTGGGA TTTCAGAGCT GGAAATATAG AAAATATCTA GCCCAAAGCC 5640 COTACTOCT COGC. TOGGE THE AGRICULTURE OF THE AGRICU GCACACAAAC CCGCCCTCCC CTTGGTGTTG GCGGTCCCTG TGGCCTTCAC TTTGTTCACT 5940 ACCTGTCAGC CCAGCCTGGG TGCACAGTAG CTGCAACTCC CCATTGGTGC TACCTGGCTC 6000
TCCTGTCTCT GCAGCTCTAC AGGTGAGGCC CAGCAGAGGG AGTAGGGCTC GCCATGTTTC 6060 TGGTGAGCCA ATTTGGCTGA TCTTGGGTGT CTGAACAGCT ATTGGGTCCA CCCCAGTCCC 6120 TTTCAGCTGC TGCTTAATGC CCTGCTCTCT CCCTGGCCCA CCTTATAGAG AGCCCAAAGA 6180 GCTCCTGTAA GAGGGAGAAC TCTATCTGTG GTTTATAATC TTGCACOAGG CACCAGAGTC 6240
TCCCTGGGTC TTGTGATGAA CTACATTTAT CCCCTTTCCT GCCCCAACCA CAAACTCTTT 6300
CCTTCAAAGA GGGCCTGCCT GGCTCCCTCC ACCCAACTGC ACCCATGAGA CTCGGTCCAA 6360 QAGTCCATTC CCCAGGTGGG AGCCAACTGT CAGGGAGGTC TTTCCCACCA AACATCTTTC 6420 AGCTGCTGGG AGGTGACCAT AGGGCTCTGC TTTTAAAGAT ATGGCTGCTT CAAAGGCCAG 6480 ACACIGIDAA CLACITAGA IGIDATCACI I ICAOGIDGC CAGGAATOTI DAAIGICIII 6860
GGCTCAGTTC ATTTAAAAAA GATATCTATI TGAAAGITCT CAGAGTTGTA CATATGITTC 6720
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TAGGCATTIT CTTGGTAGCA CAAATTTCT TATTGCTTAG AAAATTGTCC TCCTGTTAT 6840
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CTTGTCTTTT TTCTGTTGCC GAAATAGCTG GTCCTTTTTC GGGAGTTAGA TGTATAGAGT 6960 GTTTGTATGT AAACATTICT TGTAGGCATC ACCATGAACA AAGATATATT TICTATITAT 7020

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TTATTATATG TGCACTTCAA GAAGTCACTG TCAGAGAAAT AAAGAATTGT CTTAAATGTC

Seq ID NO: 16 Protein sequence:
Protein Accession #: XP\_051860.2

21

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ERSWGHRGVI VHVIDPKSGT VHSDRFDTY RSKKESERLV QYLNAVPDGR ILSVAVNDEG 240
SRNLDDMARK AMTKLGSKHF LHLGFRIPPWS FLTVKGNPSS SVEDHEYHG HRGSAAARVF 300
KLFQTEHGEY FNVSLSSEWV QDVEWTEWFD HDKVSQTKGG EKISDLWKAH PGKICNRPID 360
IQATIMDGVN LSTEVVYKKG QDYRFACYDR GRACRSYRVR FLCGKPVRPK LTVTIDTNVN 420
STILLNEDNV QSWKPGDTLV IASTDYSMYQ AEEFQVLPCR SCAPNQVKVA GKFMYLHIGE 480
EIDGVDMRAE VGLLSRNIV MGEMEDKCYP YRNHICNFFD FDTFGGHIKF ALGFKAAHLE 540
GTELKHMGQQ LVGQYPHEH LAGDVDERGG YDPPTYRDL SIEHHTFSRCV TVHGSNGLLI 600
KDVVGYNSLG HCFFTEDGPE ERNTFDHCLG LLVKSGTLLY SDRDSKMCM TIEDSYFGYI 660
PKPRODYNAV STEWMANDNIN IN INCAA AGS HRIGEWEIGH HYDTGSPSWCM YSDGYSEHID 720 PKPRQDCNAV STFWMANPNN NLINCAAAGS EETGFWFIFH HVPTGPSVGM YSPGYSEHIP 720 LGKFYNNRAH SNYRAGMID NGVKTTEASA KDKRPFLSII SARYSPHQDA DPIKPREPAI 780
RHFIAYKNQ DHGAWLRGGD VWLDSCRFAD NGIGLTLASG GTFPYDDGSK QHKNSLFVG 840
ESGNVGTEMM DNRIWGPGGL DHSGRTLPIG QNFPIRGIQL YDGPINIQNC TFRKFVALEG 900
RHTSALAFRI. NNAWQSCPHN NVTGIAFEDV PITSRVFFGE PGPWFNQLDM DGDKTSVFHD 960 VOGSVSEYPG SYLTKNDNWL YRIPDCINYP DWRGAICSGC YAQMYIQAYK TSNLRMKIIK 1020
NDFPSHPLYL EGALTRSTHY QQYQFVYTLQ KGYTHWDQT APAELAIWLI NFNKGDWRV 1080
GLCYPRGTTF SILSDVHNRL LKQTSKTGVF VRTLQMDKVE QSYPGRSHYY WDEDSGLLFL 1140
KLKAQNEREK FAFCSMKGCE RIKIKALIPK NAGYSDCTAT AYPKFTERAV VDVFMPKKLF 1200 GSQLKTKDHF LEVKMESSKQ HFFHLWNDFA YIEVDGKKYP SSEDGIQVVV IDGNQGRVVS 1260 HTSFRNSILQ GIPWQLFNYV ATIPDNSIVL MASKGRYVSR GPWTRVLEKL GADRGLKLKE 1320 QMAFVGFKGS FRPIWVTLDT EDHKAKIFQV VPIPVVKKKK L

Seq ID NO: 17 DNA sequence Nucleic Acid Accession #: Coding sequence: 61-1329

NM 015515.1

31 41 51

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GGCTGGGGCC GGCCCAGGAG CTTCCCCAGG GCTCCCACCG TCCATGGCGG TGCGGGGGGA 180
GCCCGCATCT CCCTGTCCTT CACCACGGG AGCTGCCCAC CCCCTGGAGG GTCTTGGGGT 240 TCTGGAAGAA GCAGCCCCT ACTAGGCGGA AATGGGAAGG CCACCATGCAG GATTTTGGGT 240
GACCGCCTGG CCTCCTACCT GGAGAAGGT CGGCCCTGG AGGAGGCCAA CATGAAGCTG 360
GAAAGCCGCA TCCTGAAATG GCACCAGCAG AGAGTCCTG GCAGTAAGAA AGATTATTCC 420
CAGTATGAGG AAAACATCAC ACACCTGCAG GAGCAGATAG TGGATGGTAA GATGACCAAT 480 GCTCAGATTA TTCTTCTCAT TGACAATGCC AGGATGGCAG TGGATGACTT CAACCTCAAG 540 TATGANAATG AACACTCTI TAAGAAAGAC TTGGAAATTG AAGTCQAAGG 600
ACCTTAGACAA ACCTGACAT TGTCACAACA GACCTAGAAC AGGAGGTGGA AGGAATGAGG 600
ACCTTAGACAA TCCTGACAT TGTCACAACA GACCTAGAAC AGGAGGTGGA AGGAATGAGG 600
AAAGAGCTCA TTCTCATGAA GGAGCACCAT GAGCAGGAAA TGGAGGAGCA TCATGTGCCA 720
AGTGACTTCA ATGTCAATGT GAAGGTGGAT ACAGGTCCCA GGGAAGATCT GATTAAGGTC 780 CTGGAGGATA TGAGACAAGA ATATGAGCTT ATAATAAAGA AGAAGCATCG AGACTTGGAC 840
ACTTGGTATA AAGAACAGTC TGCAGCCATG TCCCAGGAGG CAGCCAGTCC AGCCACTGTG 900
CAGAGCAGAC AAGGTGACAT CCACGAACTG AAGCGCACAT TCCAGGCCCT GGAGATTGAC 960 CTGCAGGCAC AGTACAGCAC GAAATCTGCT TTGGAAAACA TGTATCGA GACCCAGTCT 1020
CGGTACTCCT GCAAGCTCCA GGACATGCAA GAGATCATCT CCCACCATTGA GGAGGAACTG 1080
ACGCAGCTAC GCCACGAACT GGAGCGGCAG AACAATGAAT ACCAAGTGCT GCTGGGCATC 1140
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AAACTTTAT TTTTTTTTCTGTAACAGT CTCACCAGAC TCCTCATAAT GCTCTTAATA 1500
TATTGCACTT TTCTAATCAA AGTGCGAGTT TATGAGGGTA AAGCTCTACT TTCCTACTGC 1560
AGCCTTCAGA TTCTCATCAT TTTGCATCTA TTTTGTAGCC AATAAAACTC CGCACTAGC

Seq ID NO: 18 Protein sequence Protein Accession #: NP\_056330.1

MNSGHSFSQT PSASFHGAGG GWGRPRSFPR APTVHGGAGG ARISLSFTTR SCPPPGGSWG 60 SGRSSPLLIG NOKATMONIAN DRLASYLEKV RALEEANMKL ESRILKWHOQ ROPGSKKDYS 120
QYEENITHLQ EQIVDGKMTN AQIILLIDNA RMAVDDENIK YENEHSPKKD LEIBVEGLRR 180
TLDNLTIVTT DLEQEVEGMR KELILMKEHH EQEMEEHHVP SDFNVNVKVD TGPREDLIKV 240
LEDMRQRYEL IIKKKHRDLD TWYKEQSAAM SQEAASPATV QSRQGDHEL KRTFQALEID 300 LQAQYSTKSA LENMLSETOS RYSCKLODMQ BUSHYEEEL TOLRHELERQ NNEYQVILGI 360 RTHLEKEITT YRRLLEGESE GTREESKSSM KVSATPKIKA ITQETINGRL VLCQVNEIQK 420

Seq ID NO: 19 DNA sequence Nucleic Acid Accession #: see Table 25 & 25A for complete list

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GGCTTGATAA TTTATTTATA TGTTCTAGAG TCTGAGGATT TTCTTTCAGT GGCAGACAAC 540
AAAGGATGTT ACAATTTACT TCAAAATAAT ACAATCATGG TTTAATTTAC AGTGTAAATC 600
CATAACTATT TTATAGAGAT GGATTATCAT ACATGGGATT ATAAAAATAA CTTACCCATA 660 TGCTTGCAAA ATAGACTTTT CCTATTGGGA GGAACATCTT TTAACCTAAA ACGGATTTAT TTCAGATGAA TTAGACAGTA CATTTTTCAG GAGAACCAGC CTTACTGGAT GATCTTTGT 780 CAGGTTTGGA GGCCTCTTCT TTGTCTTTGC AACCATAACC CCTTTTCAGC TGAAGACCAC 840 TGGCCTTCAA CCCAAGCCAG GAGTTTGGCT CAAATGA

Seq ID NO: 20 DNA sequence Nucleic Acid Accession #:

D32051.1

Coding sequence:

72-1373

51 31 41

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CAGGCACTGC CTGCTCTGAA AAGATTTCAA ATACCGCCAT CTCAATCAGT GACCACACTG 240
CCCTTGCTCA ATTCTGCAAA GAGAAGAAAA TTGAATTTGT AGTTGTTGGA CCAGAAGCAC 300
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ACCATAAGCG ATTACTGGAG GGAGATGGTG GCCCTAACAC AGGGGGAATG GGAGCCTATT 780
GTCCAGCCCC TCAGGTTTCT AATGATCTAT TACTAAAAAT TAAAGATACT GTTCTTCAGA 840 GGACAGTGGA TGGCATGCAG CAAGAGGGTA CTCCATATAC AGGTATTCTC TATGCTGGAA 900 TAATGCTGAC CAAGAATGGC CCAAAAGTTC TAGAGTTTAA TTGCCGTTTT GGTGATCCAG 960 AGTGCCAAGT AATCCTCCCA CTTCTTAAAA GTGATCTTTA TGAAGTGATT CAGTCCACCT 1020 TAGATGGACT GCTCTGCACA TCTCTGCCTG TTTGGCTAGA AAACCACACC GCCCTAACTG 1080 TTGTCATGGC AAGTAAAGGT TATCCTGGAG ACTACACCAA GGGTGTAGAG ATAACAGGGT 1140
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GCAAAGTAGT AACTCATGGG GGTAGAGTTC TTGCAGTCAC AGCCATCCGG GAAAATCTCA 1260
TATCAGCCCT TGAGGAAGCC AAGAAAGGAC TAGCTGCTAT AAAGTTTGAG GGAGCAATTT 1320 ATAGGAAAGA CATCGGCTTT CGTGCCATAG CTTTCCTCCA GCAGCCCAGG TAAAACTCTA 1380 AGCAAGTTAG CTGTAGTGCC ATTTCAGAAA CTGGCCTAAA TGGCTATGTA GAACATTCCA 1440 TTAACCCTAT AAGTCATTCA GTATTCTTTT CTCTCTGTGG GAGTGATACA GTCTTGGTTT 1500 GTATTTTGTT TGAATCAAAA CTGGTTATAG CAATACTCAA ATGGAAAAAA CTTCATGATA 1560 GCGTAAGTTT GGAAAGTTTA GCAAAATCAC AGTGGTACTG ATTTTTATTT GTTTTCTATT 1620 TTTTTTATTT TATATTTTTA ATTTTTTTAA CAGGGTCTTC CTCTCGCC CAAGTTCTCA 1680 TGCCTCAGCC TCCCAAATAG CTGGGACTAC AGGCACAGGC CACCACACCT GGCTAATTTT 1740 TTTGTATTTT TTGTGGAGAT GGGGTTCACC ATGTTGCCAA GGCCAGTCTG AAAGCCTGGG 1800 CTCAAGTGAT CCTCCTGCTT TGGCCTCCCA AAATGCTGGG ACTATAGGCA TGAGGCGCTG 1860 CACTTGGCCT GATACTGATT TITATTCCTT GCGTTATCAC ATAGTGTTGT ATTTGAAACA 1920 TAGTTCATGG TTTTATCAAA GAACTGAAGA TGAGAATACT GGTCATCTAA CTTTGTAATT 1980 TGATTTGATT ATACTGTAAA GTTTGACAGT CCCATTTTAA CCTGCGTTTG TATCTATTAC 2040 TAAAATGTAT TTTTTGACCT CTTACTGATT CATGGTTGGT ATGTACAAAC TGTTGACITG 2100 TAAAATCAAT AAAGTCTTAG TTGG

Seq ID NO: 21 Protein sequence Protein Accession #: BAA06809.1

21 31 11 41 51

MAARVLIIGS GGREHTLAWK LAQSHHVKQV LVAPGNAGTA CSEKISNTAI SISDHTALAQ 60 FCKEKKIEFV VVGPEAPLAA GIVGNLRSAG VQCFGPTAEA AQLESSKRFA KEFMDRHGIP 120 TAQWKAFTKP EEACSFILSA DFPALVVKAS GLAAGKGVVV AKSKEEACKA VQEIMQEKAF 180 GAAGETTVIE ELLDGEEVSC LCFTDGKTVA PMPPAQDHKR LLEGDGGPNT GGMGAYCPAP 240 QVSNDLLLKI KDTVLQRTVD GMQQEGTPYT GILYAGIMLT KNGPKVLEFN CRFGDPEOQV 300 ILPLLKSDLY EVIQSTLDGL LCTSLPVWLE NHTALTVVMA SKGYPGDYTK GVEITGFPEA 360 QALGLEVSHA GTALKNGKVV THGGRVLAVT AIRENLISAL EEAKKGLAAI KFEGAIYRKD 420 IGFRAIAFLQ QPR

Seq ID NO: 22 DNA sequence Nucleic Acid Acces

EOS cloned

Coding sequence: 1-2424

11 31 51

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AAGTCCCAGG GGGATGTGGC ACTGCCATCC AAGCAGCTGA AGGAAAGGG TGTCACTGTG 540
TTTGCTGTGG GGGTCAGGTT TCCCAGGTGG GAGGACTGC ATGCACTGG CAGCAAGGC
AGAGGGCAGC ACGTCCTGTT GGCTGAGCAG GTGGAGGATG CCACCAACGG CCTCTTCAGC 660
ACCCTCAGCA GCTCGGCCAT CTGCTCCAGC GCCACGCCAG ACTGCAGGGT CGAGGCTCAC 720 ACCUTAGEA GETCOSCEAT ETOCTECANE DECACEGEAD ACTGEAGUST CRAGGETEAE 720
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GGCGGAGAG GCGCAGAGGA TGCAGCCGTT CCTGCCCAGA AGCTGAGGAA CAATGGCATC 1980 TCTGTCTTGG TCGTGGGCGT GGGGCCTGTC CTAAGTGAGG GTCTGCGGAG GCTTGCAGT 2040
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Seq ID NO: 23 Protein sequence: Protein Accession #: EOS cloned

11 21 31 41 51

MPPFLLLEAV CVFLFSRVPP SLPLQEVHVS KETIGKISAA SKMMWCSAAV DIMFLLDGSN 60 SVGKGSFERS KHFATIVCDG LDISPERVRV GAFQFSSTPH LEFPLDSFST QQEVKARIKR 120 SVGKGSFERS KHFAITVCDG LDISPERVRV GAFQFSSTFH LEFFLDSFST QQEVKARIKR 120
MVFKGGRTET ELALKYLLHR GLPGGRNASV PQILIVTDG KSQGDVALPS KQLKERGYTV 180
FAVGVRFPRW EBLHALASEP RGQHVLIAEQ VEDATNGLFS TLSSSAICSS ATFDCRVEAH 240
PCEHRTLEMV REFAGNAPCW RGSRRTLAVL AAHCPFYSWK RVFLTHPATC YRTTCPGPCD 300
SQPCQNGGTC VPEGLDGYQC LCPLAFGGBA NCALKLSLEC RVDLLFLLDS SAGTTLDGFL 360
RAKVFVKRFV RAVLSEDSRA RVGVATYSRE LLVAVPVGBY QDVPDLVWSL DGIPFRGGFT 420
LTGSALRQAA ERGFGSATRT GQDRPRRVVV LLTESHSEDE VAGPARHARA RELLLLGVGS 480
EAVRAELEEI TGSPKHVMVY SDPQDLFNQI PELQGKLCSR QRPGCRTQAL DLVFMLDTSA 540
SVGPENFAQM QSFVRSCALQ FEVNPDVTQV GLVVYGSQVQ TAFGLDTKPT RAAMLRAISQ 600
APYLGGVGSA GTALLHIYDK VMTVQRGARP GVPKAVVVLT GGRGAEDAAV PAQKLRNNGI 660
SVLVVGVGPV LSEGLRRLAG PRISILHVAA VADIR RYHODV I EWI CCEAR COUNT SVLVVGVGPV LSEGLRRLAG PRDSLJHVAA YADLRYHQDV LIEWLCGEAK QPVNLCKPSP 720 CMNEGSCVLQ NGSYRCKCRD GWEGPHCENR EWSSCSVCVS QGWILETPLR HMAPVQEGSS 780 RIPPSNYREG LGTEMVPTFW NVCAPGP

Seq ID NO: 24 <u>DNA sequence</u> Nucleic Acid Accession #: see Table 25 & 25A for complete list 41

51

31

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TCAGTTTCAT TAAAAAGGGC AAACTTGAAG ATAAATCTTT TGACTCCAGC TCTTTAGAGG 1200
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ATTTATTGAC TITAAATAAT TTTGTCTAAT GCTACATATA CACAATTAAA AAACCTTTAC 1320 ACTATTTCTA GAAAGTCAGC ATGTATTTTT GGCTCGAAGT TTCTCTAGTG TTTTCTGTGG- 1380 ACAATCTGTT GTGCGGCGCC CCTGGGCCCC TTGAGAGAAA ACTTTTTAGA ACCCCTTTG 1500 CGTTGTGGCG GCCCGGGGGC CCCACAGTTG GGTTTAGGTG GGCACCCTTG TGTCTACAAG 1560 TGGTGTCTCC CCAAGAGAGA GAACACCTCC GGGGTCAAGC GGACAACAAG AGTGCGTCGT 1620 GAGGACTETT CACCEAAAGT ATATAAAACE OGCCCGCGG GGGAACCACE GGCCGCTTTT 1680 CTGTAGACAC AACCCCCACA GTGGGAACCT CTGAGGGCGC ACACACAGGG CGAGCCTTAT 1740 CAACAAGGGG TGCCCAACAG AAACCCCGAG TTAAAAATCG

Seq ID NO: 25 DNA sequence Nucleic Acid Accession #: BC001972.1 Coding sequence: 183-1019 31 51 GOTCGGCTGG TTATCGGGAG TTGGAGGGCT GAGGTCGGGA GGGTGGTGTG TACAGAGCTC TAGGACTCAC GCACCAGGCC AGTCGCGGGT TTTGGGCCGA GGCCTGGGTT ACAAGCAGCA 120
AGTGCGCGGT TGGGGCCACT GCGAGGCCGT TTTAGAAAAC TGTTTAAAAC AAAGAGCAAT 180
TGATGGATAA ATCAGGAATA GATTCTCTTG ACCATGTGAC ATCTGATGCT GTGGAACTTG 240 CAAATCGAAG TGATAACTCT TCTGATAGCA GCTTATTTAA AACTCAGTGT ATCCCTTACT 300 CACCTAAAGG GGAGAAAAGA AACCCCATTC GAAAATTTGT TCGTACACCT GAAAGTGTTC 360
ACGCAAGTGA TTCATCAAGT GACTCATCTT TTGAACCAAT ACCATTGACT ATAAAAGCTA 420
TTTTTGAAAG ATTCAAGAAC AGGAAAAAGA GATATAAAAA AAAGAAAAAG AGGAGGTACC 480
AGCCAACAGG AAGACCACGG GGAAGACCAG AAGGAAGAGA AAATCCTATA TACTCACTAA 540 TAGATAAGAA GAAACAATTT AGAAGCAGAG GATCTGGCTT CCCATTTTTA GAATCAGAGA 600 ATGAAAAAAA CGCACCTTGG AGAAAAATTT TAACGTTTGA GCAAGCTGTT GCAAGAGGAT 660 TITTTAACTA TATTGAAAAA CTGAAGTATG AACACCACCT GAAAGAATCA TTGAAGCAAA 720 TGAATGTTGG TGAAGATTTA GAAAATGAAG ATTTTGACAG TCGTAGATAC AAATTTTTGG 780 ATGATGATAC TOTATTGAGG AGTCAACAGC AGAGGATGAG GATGCAACAC 840
ATCTTGAAGA TAACGAATGT GATATCAAAT TGGCAGGGGA TAGTTTCATA GTAAGTTCTG 900
AATTCCCTGT AAGACTGAGT GTATACCTTAG AAGAAGAGGA TATTACTGAA GAAGCTGCTT 960
TGTCTAAAAA GAGAGCTACA AAAGCCAAAA ATACTGGACA GAGAGGCCTG AAAATGTGAC 1020 AGGATCATGA ATGTCAAAGG CTTTTATCTT GAGAACATGG TGTCTGGAGT TAAAGGACTA 1080 TTGTTAGATC TGTGGGAAGG AATTACAAGA CAGTTGCTAA AAGTTTGAAA AAGACGGTTG 1140 CTAAACGTTA TGAAAAACCA GATAATCTAC TTTTTTACCT TAGGTATTGG CATACTCCAC 1200 ACATCTGTAC CATTCTTGAG TGATCGCTTA GGAATGAATG TGATTTGAAC TCATTCATGT 1250 TOAGAGGGTG TCAAATTGAG AACCAGGTAG ATCCCCACCA CCTACAGTAA AAAGGACCCT 1320 TAGAGGATC TAAAATTAAAA CSAGATACCA AAAGATTCTT GGTGAAATTTTGA CTCCAAGGAC 1400
AACTGGATCA GTTCATTAAAA CSAGATGACCA GAAGCCAAAG TAATTTTGG CTGACAGGAC 1440
AACTGGATCA GTTTCATTAA AAAGGGCAAA CTTGAAGATA AATCTTTTGA CTCCAGCTCT 1500
TTAGAGGATC TAAAGTGACC TTGATGGACA GTGGAAGAAA TCACAACATG GAATTCCTCG 1560 AATAACAATT TATTGACTIT AAATAATTIT GTCTAATGCT ACATATACAC AATTAAAAAA 1620 CCTTTACACT AAAAAAAAAA AAAAAA

Seq ID NO: 26 Protein sequence Protein Accession #: AAH01972.1 21

31

MDKSGIDSLD HVTSDAVELA NRSDNSSDSS LFKTQCIPYS PKGEKRNPIR KFVRTPESVH 60 ASDSSSDSF EPIPLTIKAI FERFKNRKKR YKKKKKRRYQ PTGRPRGRPE GRRNPIYSLI 120 DKKKQFRSRG SGFPFLESEN EKNAPWRKIL TFEQAVARGF FNYIEKLKYE HHLKESLKQM 180 NVGEDLENED FDSRRYKFLD DDGSISPIEE STAEDEDATH LEDNECDIKL AGDSFIVSSE 240 FPVRLSVYLE EEDITEEAAL SKKRATKAKN TGQRGLKM

Seq ID NO: 27 DNA sequence Nucleic Acid Acces Coding sequence: 207-1043

AK027016

51

CTTTCTTCC GCACGCTTGG AGGAGGTCGG CTGGTTATCG GGAGTTGGAG GGCTGAGGTC 60 GGGAGGGTGG TGTGTACAGA GCTCTAGGAC TCACGCACCA GGCCAGTCGC GGATTTTGGG 120 CCGAGGCCTG GGTTACAAGC AGCAAGTGCG CGGTTGGGGC CACTGCGAGG CCGTTTTAGA 180 AAACTGTTTA AAACAAAGAG CAATTGATGG ATAAATCAGG AATAGATTCT CTTGACCATG 240 TGACATCTGA TGCTGTGGAA CTTGCAAATC GAAGTGATAA CTCTTCTGAT AGCAGCTTAT 300 TTAAAACTCA GTGTATCCCT TACTCACCTA AAGGGGAGAA AAGAAACCCC ATTCGAAAAT 360 TTGTTCGTAC ACCTGAAAGT GTTCACGCAA GTGATTCATC AAGTGACTCA TCTTTTGAAC 420 CAATACCATT GACTATAAAA GCTATTTTTG AAAGATTCAA GAACAGGAAA AAGAGATATA 480 AAAAAAAGAA AAAGAGGAGG TACCAGCCAA CAGGAAGACC ACGGGGAAGA CCAGAAGGAA 540 GGAGAAATCC TATATACTCA CTAATAGATA AGAAGAAACA ATTTAGAAGC AGAGGATCTG 600 GCTTCCCATT TITAGAATCA GAGAATGAAA AAAACGCACC TTGGAGAAAA ATTTTAACGT 660 TTGAGCAAGC TGTTGCAAGA GGATTTTTTA ACTATATTGA AAAGCTGAAG TATGAACACC 720 ACCTGAAAGA ATCATTGAAG CAAATGAATG TTGGTGAAGA TTTAGAAAAT GAAGATTTTG '780
ACAGTCGTAG ATACAAATT TTGGATGATG ATGGATCCAT TTCTCCTATT GAGGAGTCAA 840
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GGGATAGTTT CATAGTAAGT TCTGAATTCC CTGTAAGACT GAGTGTATAC TTAGAAGAAG 960 AGGATATTAC TGAAGAAGCT GCTTTGTCTA AAAAGAGAGC TACAAAAGCC AAAAATACTG 1020
GACAGAGAGG CCTGAAAATG TGACAGGATC ATGAATGTCA AAGGCTTTTA TCTTGAGAAC 1080
ATGGTGTCTG GAGTTAAAGG TATTGGCATA CTCCACACAT CTGTACCATT CTTGAGTGAT 1140
CGCTTAGGAA TGAATGTGAT TTGAACTCAT TCATGTTGAG AGGGTGTCAA ATTGAGAACC 1200 AGGTAGATOC OCACCACCTA CAGTAAAAAG GACOCTAAAG TAAATTGGTT GAAGAAATTA 1260 QATCCCAAAG ATTCTTGGTG AATTTTGAAG TCTTCATCAG TATATCCATA TTAAAACGAG 1320

Seq ID NO: 28 Protein sequence: Protein Accession #: BAB15628.1

1 11 21 31 41 51

MDKSGIDSLD HYTSDAVELA NRSDNSSDSS LFKTQCIPYS PKGEKRNPIR KFYRTPESVH 60
ASDSSSDSSF EPIPLTIKAI FERFKNRKKR YKKKKRRYQ PTGRPRGRPE GRRNPIYSLI 120
DKKKQFRSRG SGFPFLESEN EKNAPWRKIL TFEQAVARGF FNYTEKLKYE HHLKESLKQM 180
NYGEDLENED FOSRRYKFLD DDGSISPIEE STAEDEDATH LEDNECDIKL AGDSFIVSSE 240
FPYRLSVYLE EEDITEEAAL SKKRATKAKN TGQRGLKM

Seq ID NO: 29 <u>DNA sequence</u> Nucleic Acid Accession #: Coding sequence: 493-1695

NM\_004289.3

1 11 21 31 41 51

Seq ID NO: 30 Protein sequence: Protein Accession #: NP 004280

11 21 31 41 51

#### RPVNPNHYAL QCTHDGSILI VPKELVASGH KKETQKGKRK

Seq ID NO: 31 <u>DNA sequence</u> Nucleic Acid Accession #: Coding sequence: 1-1208

NM\_033260.1

1 11 21 31 41 51

Seq ID NO: 32 Protein sequence: Protein Accession #: NP\_150285.1

1 11 21 31 41 51

MKLEVFVPRA AHGDKQGSDL EGAGGSDAPS PLSAAGDDSL GSDGDCAAKP SAGGGARDTQ 60 GDGEQSAGGG PGAEEAIPAA AAAAVVAEGA EAGAAGPGAG GAGSGEGARS KPYTRPKPP 120 YSYIALIAMA IRDSAGGRLT LAEINEVILMG KPFFFRGSYT GWRNSVRHNL SLNDCFVKVL 180 RDPSRPWGKD NYWMLNPNSE YTFADGVFRR RRKRLSHRAP VPAPGLRPEE APGLPAAPPP 240 APAAPASPRM RSPARQEERA SPAGKFSSSF ADSILREPF RSRRLRDTAP GTTILQWGAAP 300 CPPIPAFPAL LPAAPCRALL PLCAYGAGEP ARLGAREAEV PPTAPPLLLA PLPAAAPAKP 360 LRGPAAGGAH LYCPLRLPAA LQAALVRRPG PHLSYPVETL LA

Seq ID NO: 33 <u>DNA sequence</u> Nucleic Acid Accession #:

NM\_012128.2

Nucleic Acid Accession #: Coding sequence: 43-2796

31 51 GAACAAACCA ACATTTGAGC CAGGAATAAC TAGAGAGGAA CAATGGGGTT ATTCAGAGGT TITGTTTTCC TCTTAGTTCT GTGCCTGCTG CACCAGTCAA ATACTTCCTT CATTAAGCTG 120 AATAATAATG GCTTTGAAGA TATTGTCATT GTTATAGATC CTAGTGTGCC AGAAGATGAA 180 AAAATAATTG AACAAATAGA GGATATGGTG ACTACAGCTT CTACGTACCT GTTTGAAGCC 240 ACAGAAAAAA GATTTTTTT CAAAAATGTA TCTATATTAA TTCCTGAGAA TTGGAAGGAA 300 AATCCTCAGT ACAAAAGGCC AAAACATGAA AACCATAAAC ATGCTGATGT TATAGTTGCA CCACCTACAC TCCCAGGTAG AGATGAACCA TACACCAAGC AGTTCACAGA ATGTGGAGAG 420 AAAGGCGAAT ACATTCACTT CACCCTGAC CTTCTACTTG GAAAAAAACA AAATGAATAT 480 GGACCACCAG GCAAACTGTT TGTCCATGAG TGGGCTCACC TCCGGTGGGG AGTGTTTGAT 540 GAGTACAATG AAGATCAGCC TTTCTACCGT GCTAAGTCAA AAAAAATCGA AGCAACAAGG 600 TGTTCCGCAG GTATCTCTGG TAGAAATAGA GTTTATAAGT GTCAAGGAGG CAGCTGTCTT 660 AGTAGAGCAT GCAGAATTGA TTCTACAACA AAACTGTATG GAAAAGATTG TCAATTCTTT 720 CCTGATAAAG TACAAACAGA AAAAGCATCC ATAATGITTA TGCAAAGTAT TGATTCTGTT 780 GTTGAATTTT GTAACGAAAA AACCCATAAT CAAGAAGCTC CAAGCCTACA AAACATAAAG 840 TIGGATTITA GIAACJAAAA AACCATAAT CAAGAAGCIC CAAGCCIACA AAACACATAAA 900
TGCAATTITA GAAGTACATG GGAGGTGATT AGCAATTCTG AGGATTTAAA AAACACCATA 900
CCCATGGTGA CACCACCTCC TCCACCTGTC TTCTCATTGC TGAAGATTCAG TCAAAGAATT 960
GTGTGCTTAG TTCTTGATAA GTCTGGAAGC ATGGGGGGTA AGGACCGCCT AAATCGAATG 1020
AATCAAGCAG CAAAACATTT CCTGCTGCAG ACTGTTGAAA ATGGATCCTG GGTGGGGATG 1080 ANTEARGUAG CAMARLATT CLIGLIGUAG ACTUTTURAN ATROMATIAN AGGAGTGAT 1140
GITCACITTIG ATAGTACTGC CACTATTGTA AATAAGCTAA TCCAAATAAA AAGGAGTGAT 1140
GAAAGAAACA CACTCATGGC AGGATTACCT ACATATCCTC TGGGAGGAAC TTCCATCTGC 1200
TCTGGAATTA AATATGCATT TCAGGTGATT GGAGAGCTAC ATTCCCAACT CGATGGATCC 1260
GAAGTACTGC TGCTGACTGA TGGGGAGGAT AACACTGCAA GTTCTTGTAT TGATGAAGTG 1320 AAACAAAGTG GGGCCATTGT TCATTTTATT GCTTTGGGAA GAGCTGCTGA TGAAGCAGTA 1380 ATAGAGATGA GCAAGATAAC AGGAGGAAGT CATTTTTATG TTTCAGATGA AGCTCAGAAC 1440 AATGGCCTCA TTGATGCTTT TGGGGCTCTT ACATCAGGAA ATACTGATCT CTCCCAGAAG 1500
TCCCTTCAGC TCGAAAGTAA GGGATTAACA CTGAATAGTA ATGCCTGGAT GAACGACACT 1560
GTCATAATTG ATAGTACAGT GGGAAAGGAC ACGTTCTTC TCATCACATG GAACAGTCTG 1620 CCTCCCAGTA TTTCTCTCTG GGATCCCAGT GGAACAATAA TGGAAAATTT CACAGTGGAT 1680 GCAACTICCA AAATGGCCTA TCTCAGTATI CCAGGAACTG CAAAGGTIGGG CACTTGGGCA 1740
TACAATCTTC AAGCCAAAGC GAACCCAGAA ACATTAACTA TTACAGTAAC TTCTCGAGCA 1800
GCAAATTCTT CTGTGCCTCC AATCACAGTG AATGCTAAAA TGAATAAGGA CGTAAACAGT 1860
TTCCCCAGCC CAATGATTGT TTACGCAGAA ATTCTACAAG GATATGTACC TGTTCTTGGA 1920 GCCAATGTGA CTGCTTTCAT TGAATCACAG AATGGACATA CAGAAGTTTT GGAACTTTTG 1980 GATAATGGTG CAGGCGCTGA TTCTTTCAAG AATGATGGAG TCTACTCCAG GTATTTTACA 2040 GCATATACAG AAAATGGCAG ATATAGCTTA AAAGTTCGGG CTCATGGAGG AGCAAACACT 2100 GCCAGGCTAA AATTACGGCC TCCACTGAAT AGAGCCGCGT ACATACCAGG CTGGGTAGTO 2160

Seq ID NO: 34 <u>Protein sequence:</u> Protein Accession #: NP\_036260.1

1 11 21 31 41 51

MGLFRGFVFL LVLCLLHQSN TSFIKLNNNG FEDIVIVIDP SVPEDEKIIE QIEDMVTTAS 60
TYLFBATEKR FFENVSLIJ PENWEENPQY KEPKHENEKH ADVIVAPPTL PGRDEPYTKQ 120
FTECGEKGEY IHFTPDLLLG KKQNEYGPPG KLFVHEWAHL RWGYFDDYNE DQFFYTAKSK. 180
KIEATRCSAG ISGRNRVYKC QGGSCLSRAC RIDSTTKLYG KDCQFFPDKV QTEKASIMFM 240
QSIDSVVEFC NEKTHNQEAP SLQNIKCNFR STWEVISNSE DFKNTIPMVT PPPFPVFSLL 300
KIEQRIVCLV LDKSGSMGGK DRLNRMNQAA KHFLLQTVEN GSWVGMVHFD STATIVNKLL 360
QIKSSDENNT LMAGLPTYPL GGTISCSGIK YAFQVIGELH SQLDGSEVIL LTDGEDNTAS 420
QIKSSDENNT LMAGLPTYPL GGTISCSGIK YAFQVIGELH SQLDGSEVIL LTDGEDNTAS 420
CIDEVKQSG AIVHFIALGR AADEAVIEMS KITGGSHFVV SDEAQNNGLI DAFGALTISGN 480
TDLSQKSLQL ESKGLTLNSN AWMNDTVIID STVGKDTFFL ITWNSLPPSI SLWDPSGTIM 540
ENFTVDATSK MAYLSIPGTA KVGTWAYNLQ AKANPETLTI TVTSRAANSS VPPITVNAKM 600
NKDVNSFPSP MIVVAEILQG YVPVLGANVT AFIESQNGHT EVLELLDNGA GADSFKNDGV 660
NKDVNSFPSP MIVVAEILQG YVPVLGANVT AFIESQNGHT EVLELLDNGA GADSFKNDGV 660
YSRYFTAYTB NGRYSLKVRA HGGANTARLK LRPPLNRAAY IPGWVVNGEI EANPPRPEID 720
EDTQTTLEDF SRTASGGAFV VSQVPSLPLP DQYPPSQITD LDATVHEDKI ILTWTAPGDN 780
FDVGKVQRYI RISASILDL RDSFDDALQV NTTDLSPREA NSKESFAPRP ENISEENATH 840
IFIAIKSIDK SNLTSKVSNI AQVTLFIPQA NPDDIDPTPT PTPTPDKSEN SGVNISTLVL 900
SVGSVVIVN FILSTTI

Seq ID NO: 35 <u>DNA sequence</u> Nucleic Acid Accession #: Coding sequence: 217-3171

NM\_000901.1

31 41 51 21 OGCGGGAGCC AACTTCAGGC TGCTCAGAGG AAGCCCCTGC AGTCAGTCAC CTGGGTGCAA 60 GAGCGTTGCT GCCTCGGGCT CTCCCGCTGC AGGGAGAGCG GCACTCGCTG GCCTGGATGT 120 GGTTGGATTT AGGGGGGCTC CGCAGCAGGG GTTTCGTGGC GGTGGCAAGC GCTGCAACAG 180 GTAGACGGCG AGAGACGGAC CCCGGCCGAG GCAGGGATGG AGACCAAAGG CTACCACAGT 240 CTCCCTGAAG GTCTAGATAT GGAAAGACGG TGGGGTCAAG TTTCTCAGGC TGTGGAGCGT 300 TCTTCCCTGG GACCTACAGA GAGGACCGAT GAGAATAACT ACATGGAGAT TGTCAACGTA 360 AGCTGTGTTT CCGGTGCTAT TCCAAACAAC AGTACTCAAG GAAGCAGCAA AGAAAAACAA 420 GAACTACTCC CTTGCCTTCA GCAAGACAAT AATCGGCCTG GGATTTTAAC ATCTGATATT 480 AAAACTGAGC TGGAATCTAA GGAACTTTCA GCAACTGTAG CTGAGTCCAT GGGTTTATAT 540 ATGGATTCTG TAAGAGATGC TGACTATTCC TATGAGCAGC AGAACCAACA AGGAAGCATG 600 AGOCAGCIA AGATTATCA GAATGITGA CAGCIGGIGA AATITTAAAA AGGAAATGGC 660 CATCGTCCIT CCACTCAAG TIGIGIGAAA ACGCCCTIGA GATCAITTAI GICIGACTCI 720 GGGAGCTCCG TGAATGGTGG CGTCATGCGC GCCATTGTTA AAAGCCCTAT CATGTGTCAT 780 GAGAAAAGCC CGTCTGTTTG CAGCCCTCTG AACATGACAT CTTCGGTTTG CAGCCCTGCT 840 GGAATCAACT CTGTGTCCTC CACCACAGCC AGCTTTGGCA GTTTTCCAGT GCACAGCCCA 900 ATCACCCAGG GAACTCCTCT GACATGCTCC CCTAATGCTG AAAATCGAGG CTCCAGGTCG 960 CACAGCOCTG CACATGCTAG CAATGTGGGC TCTCCTCTCT CAAGTCCGTT AAGTAGCATG 1020 AAATCCTCAA TITCCAGCCC TCCAAGTCAC TGCAGTGTAA AATCTCCAGT CTCCAGTCCC 1080
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GCTCAAGAGG TCCCTTTTCC TAAGACTGAG GAAGTAGAGA GTGCCATCTC AAATGGTGTG 1380 ACTGGCCAGC TTAATATTGT CCAGTACATA AAACCAGAAC CAGATGGAGC TTTTAGCAGC 1440 TCATGTCTAG GAGGAAATAG CAAAATAAAT TCGGATTCTT CATTCTCAGT ACCAATAAAG 1500 CAAGAATCAA CCAAGCATTC ATGTTCAGGC ACCTCTTTTA AAGGGAATCC AACAGTAAAC 1560 CCGTTTCCAT TTATGGATGG CTCGTATTTT TCCTTTATGG ATGATAAAGA CTATTATTCC 1620 CTATCAGGAA TTTTAGGACC ACCTGTGCCC GGCTTTGATG GTAACTGTGA AGGCAGCGGA 1680 TTCCCAGTGG GTATTAAACA AGAACCAGAT GACGGGAGCT ATTACCCAGA GGCCAGCATC 1740 CCTTCCTCTG CTATTGTTGG GGTGAATTCA GGTGGACAGT CCTTCCACTA CAGGATTGGT 1800 GCTCAAGGTA CAATATCTTT ATCACGATCG GCTAGAGACC AATCTTTCCA ACACCTGAGT 1860 TCCTTTCCTC CTGTCAATAC TTTAGTGGAG TCATGGAAAT CACACGGCGA CCTGTCGTCT 1920 AGAAGAAGTG ATGGGTATCC GGTCTTAGAA TACATTCCAG AAAATGTATC AAGCTCTACT 1980 TTACGAAGTG TITCTACTGG ATCTTCAAGA CCTTCAAAAA TATGTTTGGT GTGTGGGGGAT 2040 GAGGCTTCAG GATGCCATTA TGGGGTAGTC ACCTGTGGCA GCTGCAAAGT TTTCTTCAAA 2100 AGAGCAGTGG AAGGGCAACA CAACTATTTA TGTGCTGGAA GAAATGATTG CATCATTGAT 2160 AAGATTCGAC GAAAGAATTG TCCTGCTTGC AGACTTCAGA AATGTCTTCA AGCTGGAATG 2220 AATTTAGGAG CACGAAAGTC AAAGAAGTTG GGAAAGTTAA AAGGGATTCA CGAGGAGCAG 2280 CCACAGCAGC AGCAGODDDC ACODDCAODD CCACDDDCGC AAAGCDDAGA GGAAGGGACA 2340

ACGTACATCG CTCCTGCAAA AGAACCCTCG GTCAACACAG CACTGGTTCC TCAGCTCTCC 2400 ACAATCTCAC GAGCGCTCAC ACCTTCCCCC GTTATGGTCC TTGAAAACAT TGAACCTGAA 2460 ATTGTATATG CAGGCTATGA CAGCTCAAAA CCAGATACAG CCGAAAATCT GCTCTCCACG 2520 CTCAACCGCT TAGCAGGCAA ACAGATGATC CAAGTCGTGA AGTGGGCAAA GGTACTTCCA 2580 GGATTTAAAA ACTTGCCTCT TGAGGACCAA ATTACCCTAA TCCAGTATTC TTGGATGTGT 2640 CTATCATCAT TTGCCTTGAG CTGGAGATCG TACAAACATA CGAACAGCCA ATTTCTCTAT 2700 TTTGCACCAG ACCTAGTCTT TAATGAAGAG AAGATGCATC AGTCTGCCAT GTATGAACTA 2760 TGCCAGGGGA TGCACCAAAT CAGCCTTCAG TTCGTTCGAC TGCAGCTCAC CTTTGAAGAA 2820 TACACCATCA TGAAAGTITT GCTGCTACTA AGCACAATTC CAAAGGATGG CCTCAAAAGC 2880 CAGGCTGCAT TTGAAGAAT GAGGCAAAT TACATCAAAG AACTGAGGAA GATGGTAACT 2940
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GACTCCATGC ATGACCTGGT GAGCGACCTG CTGGAATTCT GCTTCTACAC CTTCCGAGAG 3060
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AACCGGTCAC AGGAACGCAC AGATCATGGC AGGATGCGCT GGGACGGCCC ATCTTGGCAA 4680 GGTTCAGTCT GAATGGCATG GAGACCGGGA GATAGAGGGG TTTTAGATTT TTAAAAGGTA 4740 GGTTTTAAAA ATAAGTTTTA TACATAAACA GTTTTGGAGA AAAATTACAG ATCATATAAG 4800 CAAGACAGTG GCACTAAAAT GTTTAATTCA TTAATCTGTT TGTTTGGCAC TGATGCAATG 4860 TATGGCTTTT CTCTTGCCCC AAATCACAAA CATATGTATC TTTGGGGAAA CTAACAATAT 4920 GATTGCACTA AATAAACTAC TITGAATAGA GGCCAAATTA ATCTTITAAA AATGATGATA 4980 ATCATCAGGT TTACTCAGTG AAATCATATT AATTATTTC CAAAATCTAA AAGCTGTAGC 5040
TGGAGAAGCC CATGGCCACG AGGAAGCAGC AATTAATTAG ATCAACACTT TTCTCCAGGG 5100
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CCACACTTTG AAGGTAATAA ATACACAGCA TGCAGACTGG GAGTTGCTAG CAAACAAATG 5340
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Seg ID NO: 36 Protein sequence Protein Accession #: NP\_000892.1 21

31 51 MBTKGYHSLP EGLDMERRWG QVSQAVERSS LGPTERTDEN NYMEIVNVSC VSGAIPNIST 60
QGSKEKQEL LPCLQQDNIN PGILTSDIKT ELESKELSAT VAESMGLYMD SVRDADYSYE 120
QQNQQGSMSP AKIYQNVEQL VKFYKGNGHR PSTLSCVNTP LRSFMSDSGS SVNGGVMRAI 180
VKSPIMCHEK SPSVCSPLNIM TSSVCSPAGI NSVSSTTASF GSFPVHSPIT QGTPLTCSPN 240
ABINGGRSEIS PAHASNVGSP LSSPLSSMKS SISSPPSHCS VKSPVSSPNN VTLRSSVSSP 300 ABINGSRGIS PAHASNYGSP LSSPLSSMKS SISSPPSHCS VKSPVSSPNN VILKSSVSSP 300
ANINNSRCSV SSPSNTNNRS TLSSPAASTV GSICSPVNNA FSYTASGTSA GSSTLIRDVVP 360
SPDTQBKGAQ EVPFPKTBEV BSAISNGVTG QLNIVQYIKP EPPGAFSSSC LGGNSKINSD 420
SSFSVPIKQE STKESCSGTS FKGNPTVNPF PFMDGSYFSF MDDKDYYSLS GILGPPVPGF 480
DGNCEGSGFP VGIKQEPDDG SYYPEASIPS SAIVGVNSGG QSFHYRIGAQ GTISLSRSAR 540 DQSFQHLSSF PPVNTLVESW KSHGDLSSRR SDGYPVLEYI PENVSSSTLR SVSTGSSRPS 600 KICLVCGDEA SGCHYGVVTC GSCKVFFKRA VEGQENYLCA GRNDCIDKI RRKNCPACRL 660 QKCLQAGMNL GARKSKKLGK LKGIHEEQPQ QQQPPPPPPP PQSPEEGTTY IAPAKEPSVN 720 TALVPQLSTI SRALTPSPVM VLENIEPEIV YAGYDSSKPD TAENILSTLN RLAGKQMIQV 780 YKWAKVLPGF KNLPLEDQIT LIQYSWMCLS SFALSWRSYK HTNSQFLYFA POLVFNEEKM 840
HQSAMYELCQ GMFQISLQFV RLQLTFEBYT IMKVLLLLST IPKDGLKSQA AFEEMKTNYI 900
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VEIISDQLPK VESGNAKPLY FHRK

Seq ID NO: 37 <u>DNA segmence</u> Nucleic Acid Accession #: see Table 25 & 25A for complete list

41

11 21 31 41 51 CCTACCAGGT TCAAGCAACT CTGCTGCCTC AGCTCCCAAG TAGCTGGGAT TACAGGTGCA 60 CCTACCAGGT TCAAGCAACT CTGCTGCCTC AGCTCCCAAG TAGCTGGGAT TACAGGTGCA 60
TGCCACTACA CCTGGCTTIT TOTATTTTTA GTAGAGATGG TITTCACTAT GTTGGCCAGG 120
CTGATCTGA ATTCCTGGCC TGAAGTAATC TGCCTGCCTC AGCCTCCCAA AGTGCTGGGA 180
TATAGGAGC CACCACACCT GGCATAACTG GTATITTTA TATGCTTCCT GGGCAACTTA 240
AAAATTGAT TACTCTGTTG TTTCTTCTTT TTTTTTTTT TTTTTGGCTT GACCAATTTG 300
TGAGACCCAA GTATCTCCTA CCTAGAAAAA AAACCACTA AACAGTAAAT GATTACCAAC 360
CTATTTGGAA CAAATCTCAA TTAATTAACA TATACTTCAA GGAGAAGACT TAACAAAATC 420
TTACTTTCA TTCTTAATAG CTCTTTCCAT AAAAATGTTC CACAAGTGTA TCAACAAAATC 480
CCTAACAACT ACTGTTAAGT GATTAATGAA ACAGGAGTGA CAGGAGTGAA TTTAATAATA 540
CCTAACAACT ACTGTTAAGT GATTAATGAA ACAGGAGTCC TGATGCAAAA CTCTCTCTGT 600
ATTCGATGGC ATCTCAGCTT TCTCCATAGAT GTGGAGGTCC TGATGCAAAA CTCTCTCTGT 600
TGCAGAACACT GCAGCATTTTTCTTTCTTCTAG CAATCAGTCC AAAGCCACAAT GTCCAGAAGA 720
TCACAACCACA TGCAGCAATA ATGGGCCTCTA TTGGTTCACC CACAGTTTTA TCTTTAACAA 780 TCACAACACA TGCAGCAATA ATGGGCTCTA TTGGTACACC CACAGTTTTA TCTTTAACAA 780

Seq ID NO: 38 <u>DNA sequence</u> Nucleic Acid Accession #: Coding sequence: 219-773

21

NM\_001192.1

Seq ID NO: 39 <u>Protein sequence:</u> Protein Accession #: NP\_001183.1

11 31 41 51

MIQMAGQCSQ NEYFDSLLHA CIPCQLRCSS NIPPLTCQRY CNASVINSVK GINAILWICL. 60
GLSLISLAV FVLMFLLRKI SSEPLKDEFK NIGSGLLGMA NIDLEKSRIG DEIILPRGLE 120
GLSLISLAV FVLMFLLRKI SSEPLKDEFK NIGSGLLGMA NIDLEKSRIG DEIILPRGLE 120 YTVEECTCED CIKSKPKVDS DHCFPLFAME EGATILVTIK TNDYCKSLPA ALSATEIEKS 180

Seq ID NO: 40 <u>DNA sequence</u> Nucleic Acid Accession #: Coding sequence: 183-2282

> 11 21

NM\_025087.1

51

ACACTGCCTC GGTTCGCAA GTGGGTCAGT TGGCTGGGGC TCACTTGGCA ACGGGACGCG 60
GGAACGAGGG GGGCGGACCC AGGCCCGGGA GGACGCGCG GCGGAAACT GGGGGCCAG 120
GGCTAGGGCA GCGGCCCGACCC AGGCCCGGGA GGACGCGCG GCGGGAACCT GGGGGCCAG 120
CGATGACCTC GCTGTGGAGA GAAATCCTCT TGGAGTGCCT GCTGGGATCT GTTTCTTGGT 240
CCTCTCACCA TGACCTGGGA CCCGACAGCT TTTCCTGGAA AGCGCTGCCC CTCGCCGCGG 180
CTCGGCCTTGA AGGTTTTAGT ATAGCATTTC TTTCTCCAAT ATTCCTACCA ATTACTCTT 360
TCTGGAAATT GGTTAACAAG AAGTGGATGC TAACCCTGCT GAGGATAAACA ATTACTCCTT 360
GCATAGCCTC CTTCCAGGCT CCAAATGCCA AACTTCGACT GAGGATAAACA ATTACTCCTT 360
GCATAGCCTC CTTCCAGGCT CCAAATGCCA AACTTCGACT GAGGATAAACA ATTACTCCTT 360
GCATAGCCTC CTTCCAGGCT CCAAATGCCA AACTTCGACT GAGGATAATCACTATTTGGCA 420
GCATAGCTC CTTCCAGGCT CCAAATGCCA AACTTCGACT GAGGATATTTT GCGCTTTGGGG 480
ACTCCAGAAT TTGGGGGATTC ATTTTAGGAC AGATGTTCT TGTTGTTCTA CGCATATTGGT 600
ATACTTCACT AAACCCAATC TGGAGTTATTC AGATGTTCCAA CAAAGTGAAAT CTGACATTAA 660
GTGCCATAGC CACACTTGAT CGTATTTGGCA CAGATGGTGA CTGCAGTAAAA CCTGAACATTAA 660
GTGCCATAGC CACACTTGAT CGTATTTGGCA CAGATGGTGA CTGCAGTAAAA CCTGAAGAAA 720
CTGCTTTTGG TAGCCTTGGCA CCGGGGGATGG CCTCTAGACC CAACTGGCTG CTGGCAGGGG 780
CCAGAACGGGC AGTGAGTTGGCA AGTGGATTATG ACCTCAACCCAATTTGGTG 900
CCAGAACTGCT GTGCTTGGCA AGTGGATTTA TGCTAACCCAATTTTTT 840
CCAGATGGGC CTCTTGGCA AGTGGATTTA TCTCTCACC ACTGGGTTTT TGGAGAAAGTC TCTTTGTTT 340
CCAGATGGCG TGCTTGTCA GGTGATTTAT TGCTCACCT CTTGTTTTT 360
CAGGCAGG TGCTTGTCT GCCTAGACAC CAGGGCCAGA TCCTAACCCAA TTTGGAGGTG 900
CTGGTTTTAAT CTGGTGGGT TACAGGAACAG CTTCACCTC TTGTTTTTTT 360
CAGGACGGC TGCTTGTCT GGCTGGTTCT TCGCCTTCTT TACTGCATCC ATTTGGCCCC 1080
AAACACTTGG ACACCTTATT AACTCAGGGA CAAACCCTGG GGGCCCCTT TACTGCACA 1020
CAGGAGGTGT CTAAGGAAAAAAACAG CTTCAGCCTGGGGCCCCT TAAGTTAATTA 1260
CAGGAGGTGT CTAAGCTAGA AAAACCTTGA TTTGCTCTTT CTGCCTTGCCCCCT 1080
TCGGGCTGAA TATGCTATTT AGAAAAGATCAG AAAACCTTGA TTTGCTTCTT CAAACAAAAA 1220
TCGGGCTGAA TATGCTATTT CAGAAAAGAGTAAAAACCTTGA TTTGCTTTT CTGTGGCTGC 1380
TTGTTGGTGT GGGATTGTTG GGATTAGGAA AAAACCTTGA CTTTTTCTTC CAAACAAAAA 1220
TCGTTTTTAA AGTGCTTTTC AGAAAAAAACATGA AAAACCTTGA CTTTGAG ACACTGCCTC GGTTCGCCAA GTGGGTCAGT TGGCTGGGGC TCACTTGGCA ACGGGACGCG 60 CCAAAGIGGC ACCAACCAAA GAGGTCTCTG CTGCCATCTG GCCTTTCAGG TTTGGATATG 1500
ACAATGAAGG GTGGTCTAGT CTAGAAAGAT CAGCTCACCT GCTCCAATGAA ACAGGTGCAG 1500 ATTICATAAC AATTITIGGAG AGTGATGCTT CTAAGCCCTA TATGGGGAAC AATGACTTAA 1620

Seq ID NO: 41 <u>Protein sequence:</u> Protein Accession #: NP\_079363.1

1 11 21 31 41 51

MTSLWREILL ESLLGCVSWS LYHDLGPMIY YFFLQTLELT GLEGFSIAFL SPIFLTITFF 60
WKLVNKKWML TLLRIITIGS IASFQAPNAK LRLMVLALGY SSSLIVQAVT WWSGSFILQRY 120
LRIWGFILGQ IVLVVLRIWY TSLNPIWSYQ MSNKVILTLS AIATLIDRIGT DGDCSKPEEK 180
KTGEVATGMA SRPNWLLAGA AFGSLVPLTH WVFGEVSLVS RWAVSGHPIP GFDPNPFGGA 240
VLLCLASGLM LPSCLWFRGT GLIWWVTGTA SAAGLLYLHT WAAAVSGCVF AIFTASMWPQ 300
TLGHLINGGT NPGKTMTIAM IPYLLEIFFC AWCTAFKFVP GGVYARERSD VLLGTMMLII 360
GLNMLFGPKK NLDLLLQTKN SSKVLFRKSE KYMKLFLWLL VGVGLLGLGL RHKAYERKLG 420
KVAPTKEVSA AIWPFRFGYD NEGWSSLERS AHLINETGAD FITILISDAS KPYMGNNDLT 480
MWLGEKLGPY TDFGPSTRYH TWGIMALSRY PIVKSEHHLL PSPEGHIAPA ITLTVNISGK 540
LVDFVVTHFG NHEDDLDRKL QATAVSKLLK SSSNQVIFLG YTTSAPGSRD YLQLTEHGNV 600
EXDISTIONER WCEVYMYRGL IRLGYARISH AELSDSEIQM AKFRIPDDPT NYRDNQKVVI 660
DHREVSEKIH FNPRFGSYKE GHNYENNENF HMNTPKYFL

=

It is understood that the examples described above in no way serve to limit the true scope of this invention, but rather are presented for illustrative purposes. All publications, sequences of accession numbers, and patent applications cited in this specification are herein incorporated by reference as if each individual publication or patent application were specifically and individually indicated to be incorporated by reference.

## WHAT IS CLAIMED IS:

1	1.	A method of detecting a metastatic colorectal cancer-associated				
2	transcript in a cell fro	om a patient, the method comprising contacting a biological sample from				
3	the patient with a polynucleotide that selectively hybridizes to a sequence at least 80%					
4	identical to a sequence	ce as shown in Tables 1-26.				
_						
1	2.	The method of claim 1, wherein the biological sample comprises				
2	isolated nucleic acids	<b>i.</b>				
1	3.	The method of claim 1, wherein the polynucleotide is labeled.				
1	4.	The method of claim 1, wherein the polynucleotide is immobilized on				
2	a solid surface.					
	_	<u>-</u>				
1	5.	An isolated nucleic acid molecule consisting of a polynucleotide				
2	sequence as shown in	1 Tables 1-26.				
i	6.	An expression vector comprising the nucleic acid of claim 5.				
I	7.	A host cell comprising the expression vector of claim 6.				
1	8.	An isolated polypeptide which is encoded by a nucleic acid molecule				
2	having polynucleotid	e sequence as shown in Tables 1-26.				
l	9.	An antibody that specifically binds a polypeptide of claim 8.				
1	10.	The antibody of claim 10, which is an antibody fragment.				
L	11.	The antibody of claim 10, which is a humanized antibody				
L	12.	A method of detecting a metastatic colorectal cancer cell in a				
2	biological sample fro	m a patient, the method comprising contacting the biological sample				
3	with an antibody of c	laim 9.				
l	13.	The method of claim 12, wherein the antibody is labeled.				
į	14.	A method of detecting antibodies specific to metastatic colorectal				
2	cancer in a patient, th	e method comprising contacting a biological sample from the patient				
3	with a polypeptide en	acoded by a nucleic acid comprises a sequence from Tables 1-26.				

15. A method for identifying a compound that modulates a metastatic colorectal cancer-associated polypeptide, the method comprising the steps of:

- (i) contacting the compound with a metastatic colorectal cancer-associated polypeptide, the polypeptide encoded by a polynucleotide that selectively hybridizes to a sequence at least 80% identical to a sequence as shown in Tables 1-26.; and
  - (ii) determining the functional effect of the compound upon the polypeptide.
- 16. The method of claim 15, wherein the functional effect is determined by measuring ligand binding to the polypeptide.
- 17. A method of inhibiting proliferation of a metastatic colorectal cancerassociated cell to treat colorectal cancer in a patient, the method comprising the step of
  administering to the subject a therapeutically effective amount of a compound that modulates
  a polypeptide encoded by a sequence as shown in Tables 1-26.
  - 18. A drug screening assay comprising the steps of
- (i) administering a test compound to a mammal having colorectal cancer or a cell isolated therefrom:
- (ii) comparing the level of gene expression of a polynucleotide that selectively hybridizes to a sequence at least 80% identical to a sequence as shown in Tables 1-26. in a treated cell or mammal with the level of gene expression of the polynucleotide in a control cell or mammal, wherein a test compound that modulates the level of expression of the polynucleotide is a candidate for the treatment of colorectal cancer.
- 19. A pharmaceutical composition for treating a mammal having colorectal cancer, the composition comprising a compound identified by the assay of claim 18 and a physiologically acceptable excipient.
- 20. A method of detecting a metastatic colorectal cancer-associated polypeptide in a cell from a patient, the method comprising contacting a biological sample from the patient with a antibody that that specifically binds a polypeptide encoded by a nucleic acid molecule having polynucleotide sequence as shown in Tables 1-26.
  - 21. The method of claim 21, wherein the antibody is labeled.